

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457913

Luminaire Tested: **GALN-SA9B-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51129 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

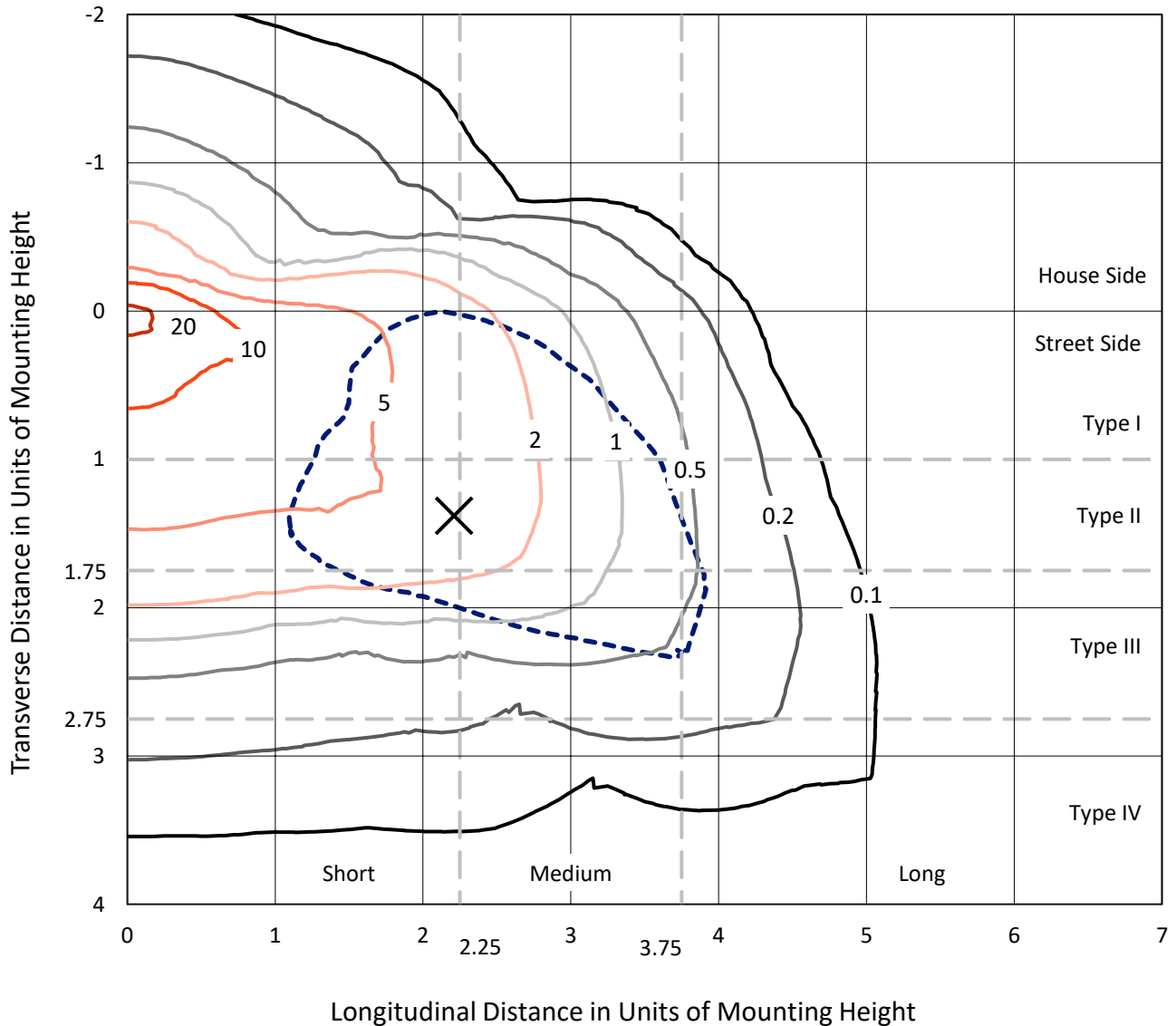
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

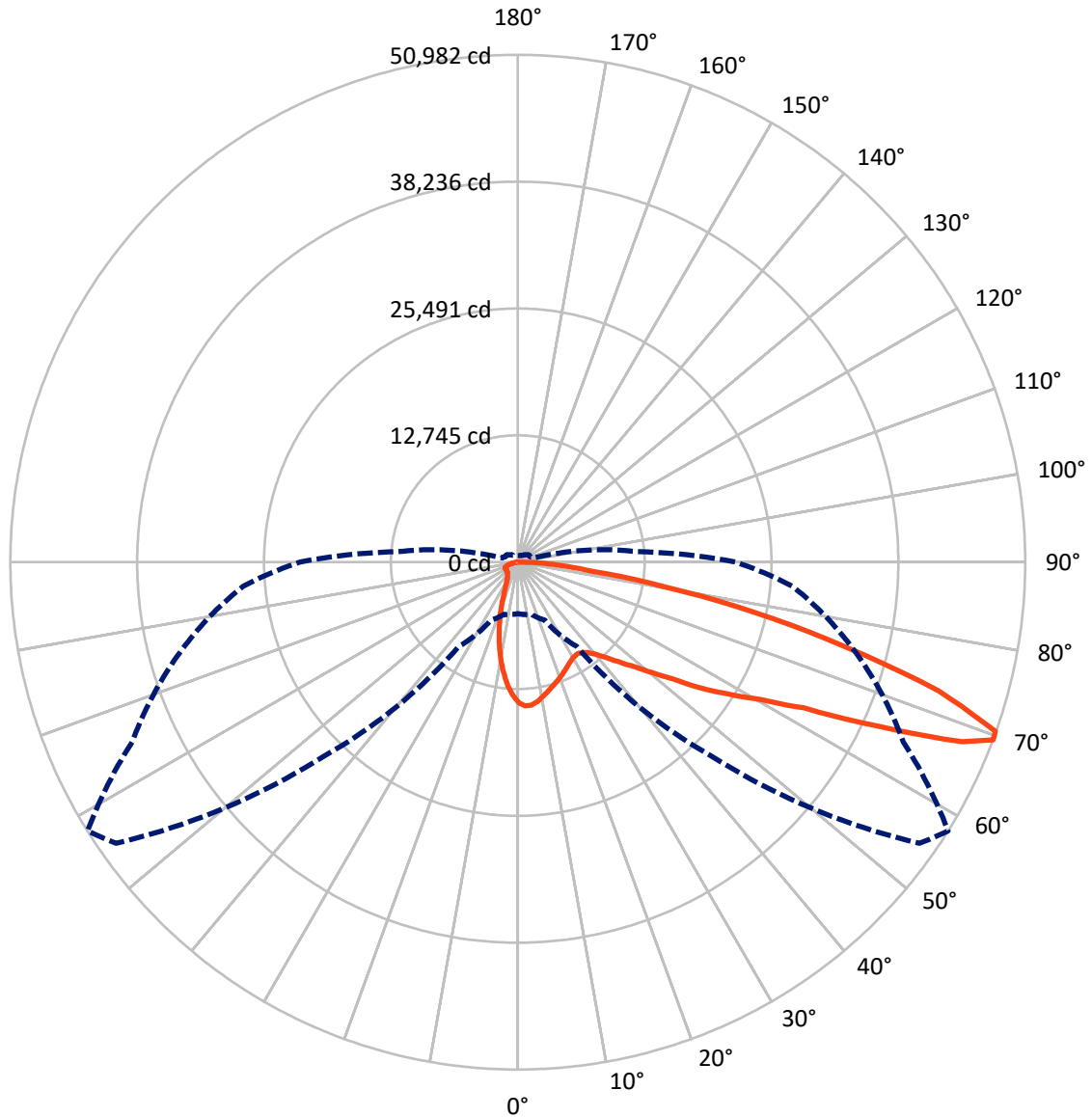
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7492.9	0.0	7492.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	43636.0	0.0	43636.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	51129.0	0.0	51129.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.9	2.3
10°-20°	2634.8	5.2
20°-30°	3404.2	6.7
30°-40°	4421.4	8.6
40°-50°	6428.0	12.6
50°-60°	10257.0	20.1
60°-70°	13702.1	26.8
70°-80°	7898.7	15.4
80°-90°	1183.1	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51129.0	100.0
0°-180°	51129.0	100.0



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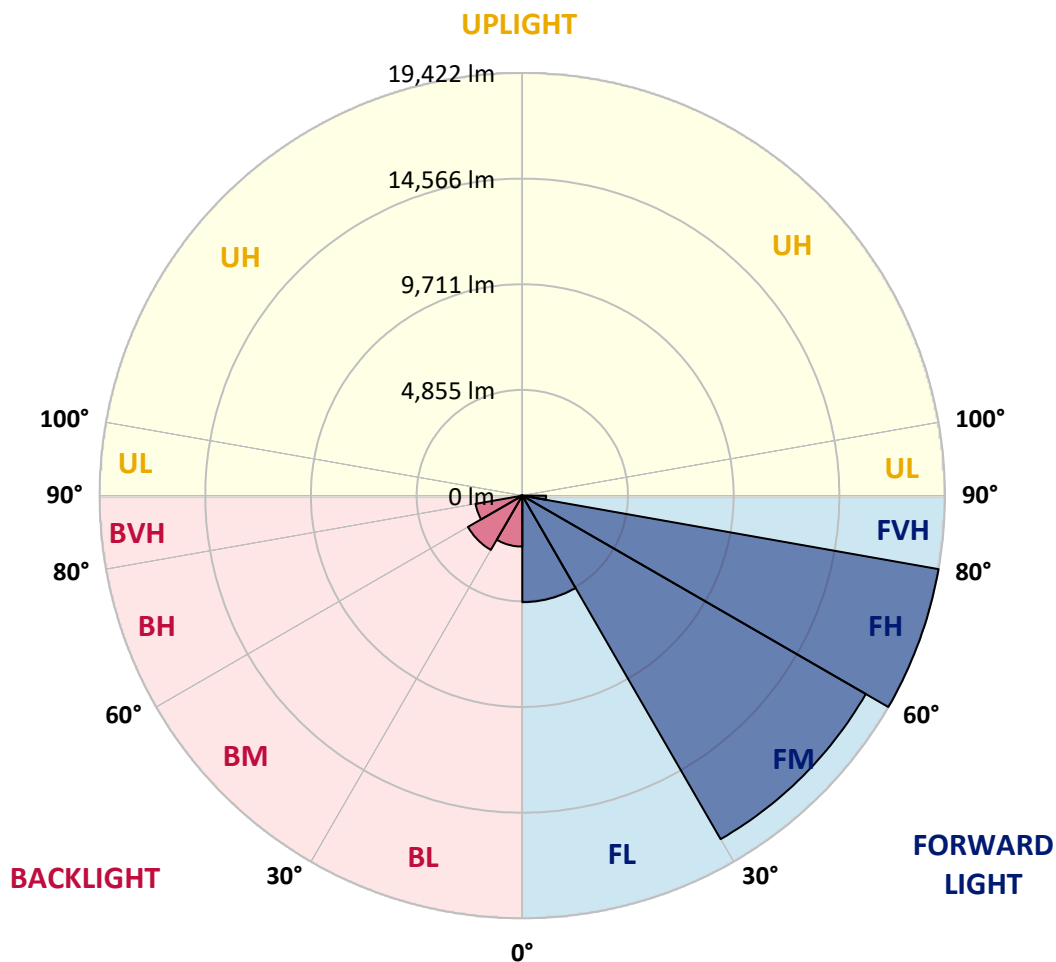
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4896.9	9.6			
FM	(30°-60°)	18224.8	35.6			
FH	(60°-80°)	19421.9	38.0			G5
FVH	(80°-90°)	1092.4	2.1			G5
BL	(0°-30°)	2342.0	4.6	B3/2500		
BM	(30°-60°)	2881.5	5.6	B3/5000		
BH	(60°-80°)	2178.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	90.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1
2.5°	14653.7	14693.7	14682.2	14668.0	14645.2	14582.4	14479.8	14462.7	14397.1	14257.4	14083.4
5°	14428.5	14462.7	14465.5	14485.5	14514.0	14502.6	14428.5	14419.9	14323.0	14134.8	13843.9
7.5°	13655.7	13701.3	13801.1	13912.4	14012.2	14106.3	14129.1	14143.3	14083.4	13866.7	13478.9
10°	12786.0	12831.6	12877.3	13042.7	13287.9	13521.7	13715.6	13741.3	13755.5	13555.9	13082.6
12.5°	11822.2	11916.3	12013.3	12258.5	12586.4	12954.3	13296.4	13350.6	13447.6	13296.4	12740.4
15°	11003.8	11100.8	11240.5	11460.1	11856.4	12386.8	12868.7	12957.1	13148.2	13071.2	12421.0
17.5°	10436.4	10470.6	10567.6	10818.5	11246.2	11805.1	12449.5	12626.3	12931.4	12911.5	12147.3
20°	9988.7	10031.5	10091.4	10245.4	10690.2	11280.4	12058.9	12287.0	12700.5	12768.9	11876.4
22.5°	9800.5	9831.9	9823.3	9906.0	10208.3	10801.4	11662.5	11933.4	12495.2	12672.0	11625.5
25°	9811.9	9840.4	9797.7	9777.7	9957.4	10379.4	11249.1	11594.1	12329.8	12606.4	11397.3
27.5°	10003.0	10022.9	9943.1	9863.3	9877.5	10117.0	10906.9	11289.0	12190.1	12634.9	11206.3
30°	10259.6	10296.7	10245.4	10148.4	10042.9	10054.3	10687.3	11063.7	12124.5	12734.7	11115.1
32.5°	10590.4	10624.6	10601.8	10524.8	10387.9	10236.8	10633.2	10981.0	12130.2	12937.1	11095.1
35°	10938.3	11006.7	11043.8	11038.1	10926.9	10664.5	10847.0	11135.0	12267.0	13276.5	11212.0
37.5°	11331.8	11388.8	11548.5	11651.1	11548.5	11243.4	11328.9	11528.5	12569.3	13766.9	11468.6
40°	11713.9	11799.4	12033.2	12352.6	12312.7	12044.6	12064.6	12195.8	13102.5	14496.9	11970.5
42.5°	12113.1	12215.7	12623.5	13096.8	13190.9	12982.8	13036.9	13153.9	13861.0	15509.2	12831.6
45°	12626.3	12748.9	13250.8	13841.1	14211.8	14083.4	14237.4	14294.4	14876.1	16826.6	13966.5
47.5°	13287.9	13430.5	14049.2	14784.9	15309.6	15426.5	15694.5	15660.3	16133.6	18386.3	15437.9
50°	14402.8	14482.6	15067.2	15817.1	16538.6	17066.1	17356.9	17411.1	17693.4	19903.3	17083.2
52.5°	15728.7	15800.0	16222.0	16877.9	17781.8	18899.6	19618.2	19441.4	19509.8	21751.1	19007.9
55°	17220.1	17339.8	17607.9	18044.1	19216.1	20861.4	22304.2	22347.0	21588.5	23519.0	20852.8
57.5°	18374.9	18577.4	19036.5	19658.1	21143.7	23042.8	24981.8	25010.3	24040.8	25406.6	22888.8
60°	17793.2	18032.7	19082.1	20596.2	23673.0	26849.5	28181.1	28018.6	26427.5	27556.7	25372.4
62.5°	15283.9	15326.7	16852.2	19218.9	24451.4	31942.2	32943.1	32255.9	29612.6	30282.7	27896.0
65°	9891.8	10171.2	11380.2	14696.5	21893.6	34768.0	41286.5	39698.2	34078.0	33376.5	30008.9
67.5°	6244.7	6173.4	6675.3	8391.9	15058.6	32278.7	48406.7	48155.7	39917.8	35329.8	29504.2
69°	5178.3	5258.1	5429.2	6432.9	10362.3	27559.5	49247.8	50981.5	42749.3	35175.8	27670.7
70°	4696.4	4733.4	4913.1	5703.0	7995.5	23082.7	47867.7	50904.5	43861.4	34531.4	26341.9
72.5°	3726.9	3724.0	4032.0	4744.9	5976.7	13176.7	39304.7	44195.0	42618.2	31531.6	21765.3
75°	2831.5	2877.1	3216.5	4014.9	5506.2	7200.0	27428.3	34035.2	34038.1	24904.8	13581.6
77.5°	2041.7	2070.2	2466.5	3370.4	5186.8	5837.0	18269.4	24411.5	22948.7	11411.6	4268.7
80°	1337.3	1354.5	1656.7	2669.0	4676.4	5506.2	10832.8	14941.7	10824.2	3028.3	1411.5
82.5°	732.8	818.4	1012.3	1728.0	3752.5	5087.0	6584.1	7562.1	4060.5	1348.7	735.7
85°	367.8	390.7	570.3	1009.4	2452.3	4208.8	4585.2	4337.1	2095.8	670.1	382.1
87.5°	108.4	136.9	236.7	390.7	995.2	2192.8	2552.1	2289.7	807.0	242.4	79.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1	14129.1
2.5°	14012.2	13960.8	13732.7	13527.4	13339.2	13139.6	12971.4	12823.1	12837.3	12840.2	12689.1
5°	13692.8	13575.9	13142.5	12737.5	12395.4	11961.9	11591.2	11351.7	11232.0	11072.3	11129.3
7.5°	13259.4	13034.1	12432.4	11759.5	11129.3	10567.6	9957.4	9538.2	9270.1	9010.7	9044.9
10°	12811.7	12449.5	11574.1	10684.5	9869.0	8970.7	8192.3	7525.0	7028.9	6843.5	6720.9
12.5°	12352.6	11876.4	10764.3	9581.0	8454.6	7379.6	6276.1	5560.4	5012.9	4722.0	4759.1
15°	11933.4	11354.6	9920.3	8477.4	7014.6	5734.3	4633.6	3952.1	3570.0	3490.2	3535.8
17.5°	11545.6	10787.1	9130.4	7405.3	5697.2	4300.0	3481.7	3096.7	2942.7	2900.0	2897.1
20°	11146.4	10305.2	8243.6	6259.0	4439.7	3333.4	2857.2	2677.5	2649.0	2666.1	2669.0
22.5°	10741.5	9709.3	7331.1	5121.3	3535.8	2726.0	2497.9	2449.4	2472.2	2512.2	2517.9
25°	10368.0	9184.6	6452.9	4123.2	2823.0	2395.2	2284.0	2284.0	2335.4	2395.2	2398.1
27.5°	10060.0	8677.0	5577.5	3273.5	2363.9	2155.7	2118.6	2138.6	2209.9	2255.5	2258.4
30°	9806.2	8203.7	4750.6	2623.4	2078.7	1964.7	1956.1	1990.3	2041.7	2084.4	2087.3
32.5°	9615.2	7787.4	3977.8	2204.2	1882.0	1819.2	1816.4	1842.1	1870.6	1882.0	1893.4
35°	9541.0	7442.4	3270.6	1939.0	1750.8	1710.9	1710.9	1708.0	1719.4	1725.1	1730.8
37.5°	9600.9	7177.2	2723.2	1767.9	1653.9	1625.3	1608.2	1591.1	1585.4	1585.4	1588.3
40°	9854.7	7037.4	2315.4	1656.7	1585.4	1542.6	1511.3	1491.3	1471.4	1477.1	1482.8
42.5°	10393.6	7063.1	2038.8	1582.6	1525.5	1465.7	1420.0	1397.2	1383.0	1400.1	1397.2
45°	11251.9	7319.7	1862.0	1531.2	1465.7	1388.7	1345.9	1323.1	1323.1	1348.7	1357.3
47.5°	12452.4	7810.2	1767.9	1491.3	1420.0	1328.8	1286.0	1268.9	1274.6	1317.4	1320.2
50°	13918.1	8662.8	1750.8	1471.4	1397.2	1286.0	1237.5	1220.4	1234.7	1280.3	1286.0
52.5°	15534.8	9760.6	1833.5	1474.2	1377.3	1260.4	1197.6	1172.0	1186.2	1223.3	1234.7
55°	17451.0	11135.0	2047.4	1485.6	1348.7	1246.1	1169.1	1112.1	1129.2	1154.8	1157.7
57.5°	19407.1	12868.7	2423.8	1488.5	1325.9	1220.4	1120.6	1046.5	1046.5	1063.6	1072.2
60°	21796.7	14756.4	2919.9	1491.3	1328.8	1183.4	1055.0	972.4	960.9	969.5	972.4
62.5°	24169.1	16336.1	3002.6	1482.8	1357.3	1146.3	983.8	898.2	878.3	875.4	869.7
65°	25215.6	16042.4	2460.8	1442.8	1388.7	1123.5	926.7	826.9	792.7	781.3	781.3
67.5°	23510.4	13570.2	1850.6	1388.7	1368.7	1100.7	872.6	767.0	727.1	704.3	704.3
69°	21907.9	12070.3	1662.4	1351.6	1317.4	1063.6	838.3	735.7	687.2	661.5	653.0
70°	20670.3	11038.1	1582.6	1320.2	1268.9	1020.8	812.7	712.9	658.7	630.2	624.5
72.5°	16495.8	8659.9	1385.8	1200.5	1080.7	858.3	721.4	641.6	590.3	558.9	550.3
75°	9506.8	4693.5	1149.1	1043.6	869.7	667.2	610.2	558.9	519.0	490.5	481.9
77.5°	2925.6	1813.5	832.6	824.1	638.7	516.1	487.6	467.6	439.1	407.8	402.1
80°	1231.8	923.9	564.6	556.0	424.9	359.3	350.7	347.9	336.5	310.8	302.3
82.5°	675.8	521.8	393.5	342.2	256.6	208.2	216.7	219.6	211.0	185.3	168.2
85°	330.8	285.1	191.0	154.0	116.9	74.1	71.3	85.5	79.8	57.0	62.7
87.5°	65.6	79.8	51.3	22.8	11.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)