

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: P457911

Luminaire Tested: **GALN-SA9B-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51491 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

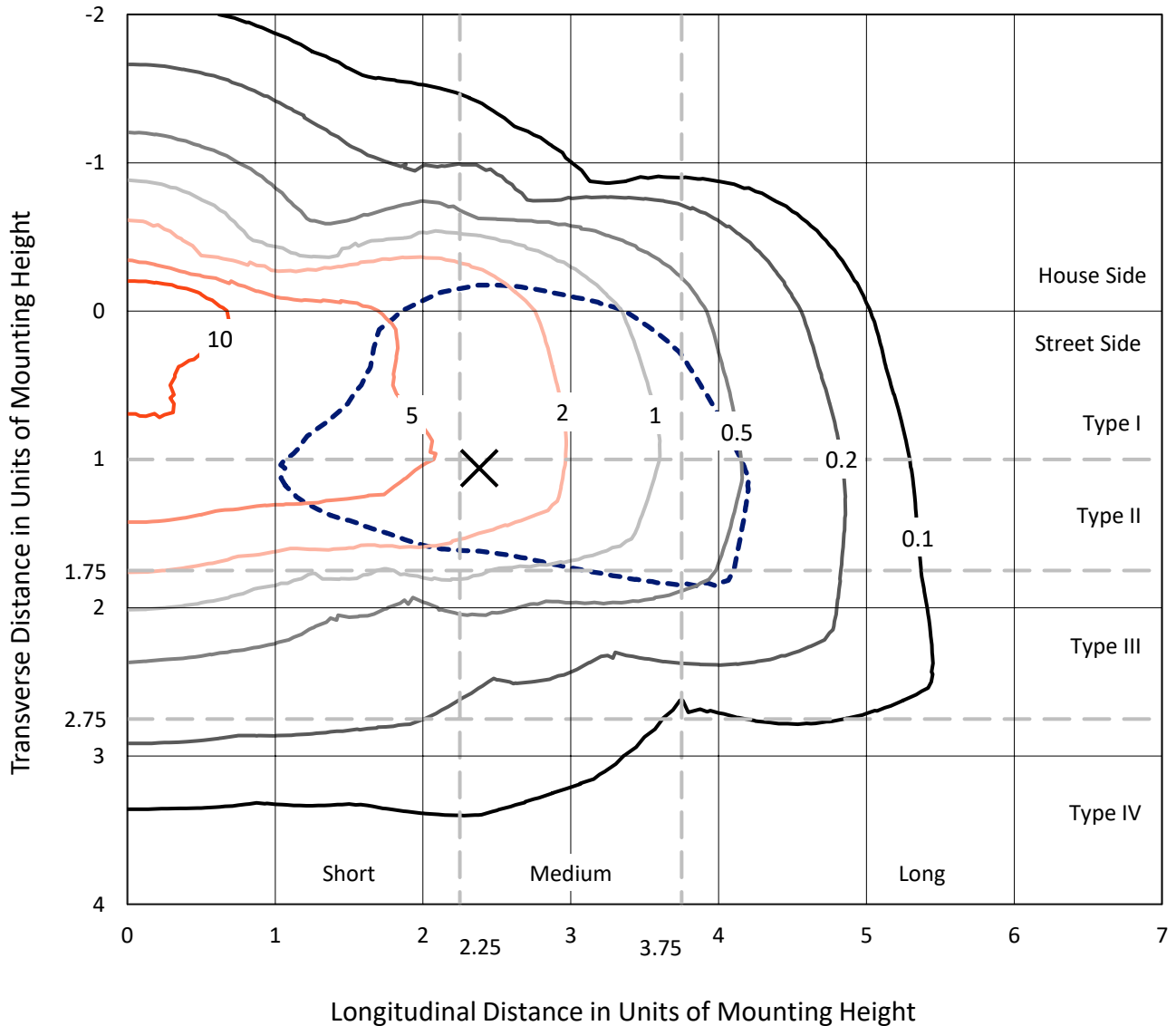
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

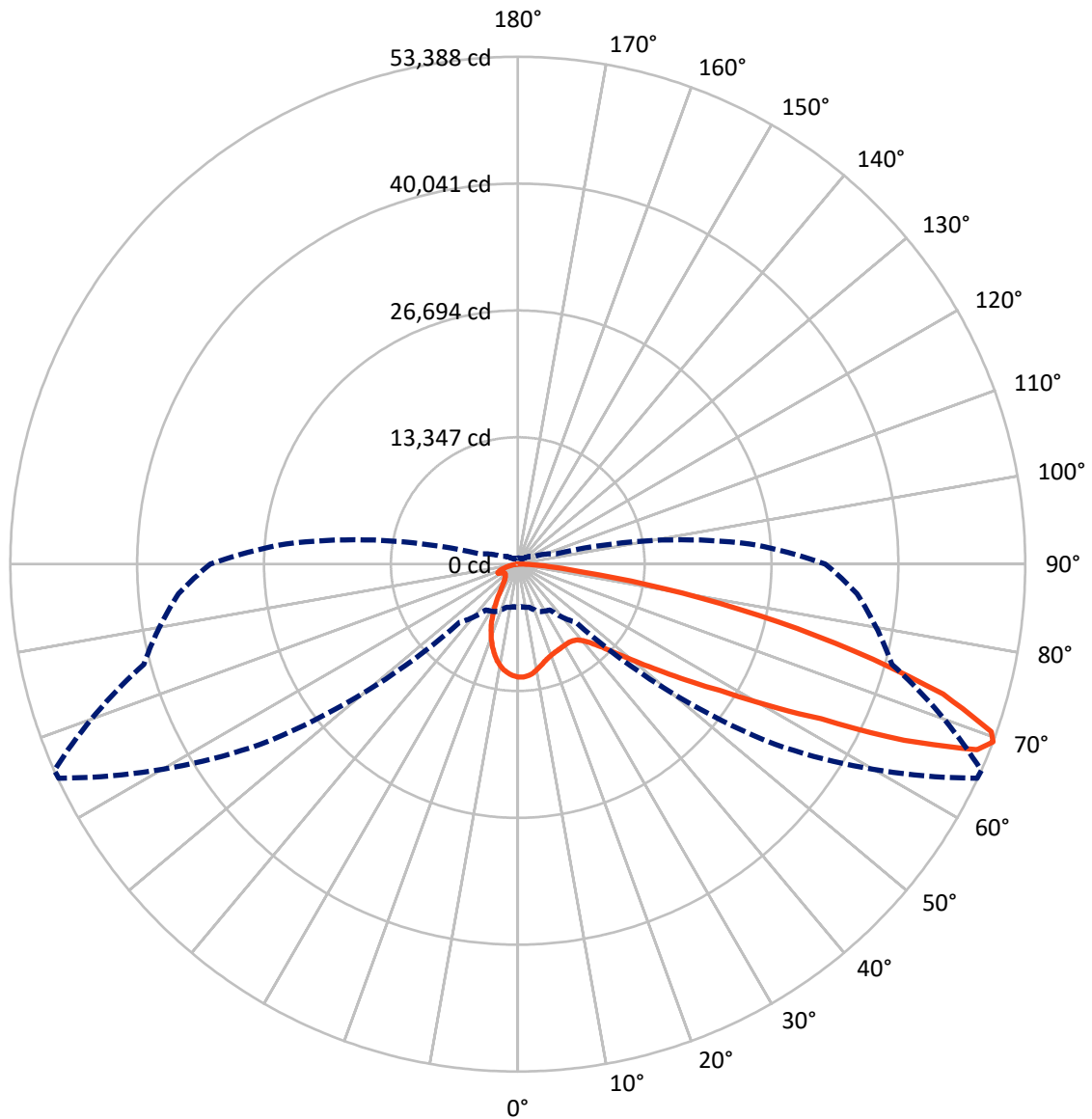
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9683.5	0.0	9683.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41807.5	0.0	41807.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	51491.0	0.0	51491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1032.6	2.0
10°-20°	2449.2	4.8
20°-30°	3334.2	6.5
30°-40°	4480.5	8.7
40°-50°	6690.1	13.0
50°-60°	10641.8	20.7
60°-70°	13088.8	25.4
70°-80°	8516.2	16.5
80°-90°	1257.6	2.4
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°	51491.0	100.0
0°-180°	51491.0	100.0

Coefficient of Utilization



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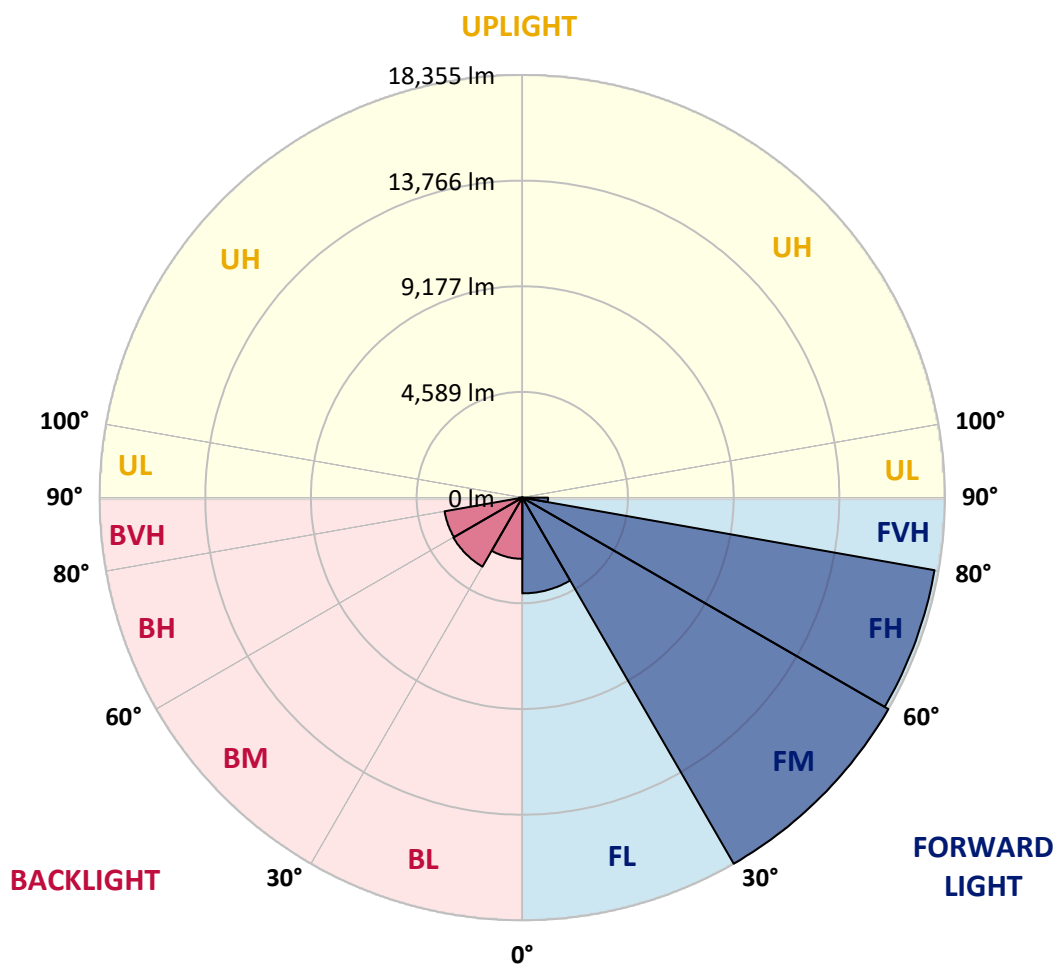
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4157.8	8.1			
FM	(30°-60°)	18355.0	35.6			
FH	(60°-80°)	18176.6	35.3			G5
FVH	(80°-90°)	1118.1	2.2			G5
BL	(0°-30°)	2658.2	5.2	B4/5000		
BM	(30°-60°)	3457.4	6.7	B3/5000		
BH	(60°-80°)	3428.4	6.7	B4/5000		G4/5000
BVH	(80°-90°)	139.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7
2.5°	11474.4	11520.0	11571.3	11628.4	11736.7	11796.6	11839.4	11887.9	11893.6	11919.2	11899.3
5°	10627.5	10681.7	10758.7	10867.0	11029.6	11283.3	11545.7	11759.5	11785.2	11905.0	11939.2
7.5°	9920.3	9951.7	10014.4	10188.4	10419.3	10701.6	11083.7	11517.2	11579.9	11865.0	11964.8
10°	9344.3	9375.7	9449.8	9629.5	9857.6	10211.2	10630.3	11200.6	11252.0	11742.4	11970.5
12.5°	8913.7	8942.3	9022.1	9198.9	9461.2	9792.0	10253.9	10858.5	10932.6	11579.9	11916.4
15°	8585.8	8640.0	8705.6	8851.0	9127.6	9447.0	9894.7	10544.8	10604.7	11408.8	11879.3
17.5°	8446.1	8471.8	8517.4	8651.4	8853.9	9167.5	9618.1	10299.6	10370.9	11289.0	11870.7
20°	8451.8	8477.5	8486.0	8560.2	8705.6	8976.5	9421.3	10105.7	10191.2	11183.5	11885.0
22.5°	8645.7	8648.6	8617.2	8591.5	8648.6	8873.8	9281.6	9960.2	10060.0	11137.9	11896.4
25°	8945.1	8996.4	8950.8	8831.1	8725.6	8833.9	9227.4	9880.4	9974.5	11072.3	11882.1
27.5°	9429.9	9438.4	9401.4	9238.8	8965.1	8885.2	9204.6	9820.5	9900.4	11023.9	11810.9
30°	10080.0	10054.3	10020.1	9840.5	9409.9	9082.0	9253.1	9766.3	9849.0	10952.6	11725.3
32.5°	10738.7	10818.5	10787.2	10576.2	10017.3	9464.1	9409.9	9760.6	9829.1	10898.4	11631.2
35°	11437.3	11474.4	11622.7	11514.3	10941.2	10082.9	9703.6	9849.0	9903.2	10901.2	11565.6
37.5°	11984.8	12084.6	12432.5	12526.6	11987.7	10901.2	10179.8	10100.0	10122.8	11041.0	11591.3
40°	12646.3	12817.4	13265.1	13650.1	13296.5	11964.8	10989.6	10564.8	10593.3	11377.4	11759.5
42.5°	13484.7	13604.4	14206.1	14727.9	14670.9	13370.6	11970.5	11326.1	11340.4	12047.5	12230.0
45°	14465.6	14636.7	15312.5	16096.6	16230.7	14961.8	13387.7	12478.1	12469.6	13088.3	13108.3
47.5°	15720.3	15825.8	16495.9	17351.3	17893.1	16960.6	15107.2	14132.0	14040.7	14605.3	14442.8
50°	16875.1	17040.5	17548.1	18483.3	19832.1	19301.7	17368.4	16276.3	16062.4	16590.0	16316.2
52.5°	17359.9	17533.8	17961.5	19122.1	21494.5	22330.0	20239.9	18834.1	18477.6	18882.5	18782.7
55°	16518.7	16743.9	17143.1	18554.6	22224.5	25823.1	24112.2	21791.1	21531.6	21357.6	21386.2
57.5°	14257.4	14471.3	15010.2	16567.1	21351.9	28358.0	29641.2	25592.1	25036.1	24234.8	24371.7
60°	10852.8	10986.8	11266.2	12991.4	18765.6	29016.7	35920.2	30396.9	30043.3	27100.5	27197.5
62.5°	7707.6	7858.7	8052.6	8913.7	13738.5	27160.4	40836.2	37106.4	35843.2	30068.9	29974.8
65°	6259.0	6156.4	6390.2	6792.2	8061.2	21049.7	41942.5	46419.4	44680.0	33978.3	32672.3
67.5°	5146.9	5038.6	5269.5	5985.3	6130.7	12218.6	37956.1	52464.5	52116.6	38229.9	35412.6
69°	4556.7	4499.6	4702.1	5517.6	5885.5	8677.1	33065.8	53305.7	53388.4	40736.3	35834.6
70°	4106.1	4129.0	4325.7	5281.0	5774.3	7154.4	28261.1	52145.2	52846.6	41988.2	35378.4
72.5°	3022.6	3071.1	3344.8	4374.2	5668.8	6070.8	16818.1	45546.8	46787.2	42062.3	32364.4
75°	2113.0	2090.1	2332.5	3293.5	5355.1	6016.6	9877.6	35224.4	36630.2	36356.5	27194.6
77.5°	1383.0	1420.0	1613.9	2326.8	4505.4	5971.0	6438.7	24990.4	25902.9	24314.6	16085.2
80°	975.2	972.4	1080.7	1588.3	3341.9	5737.2	5272.4	15751.6	15520.6	9555.3	4770.5
82.5°	558.9	598.8	724.3	1117.8	2235.6	5050.0	4850.4	7533.6	6877.8	2723.2	1611.1
85°	310.8	325.1	430.6	675.8	1306.0	3803.9	4234.5	3427.5	3233.6	1137.7	692.9
87.5°	99.8	108.4	179.6	342.2	593.1	1796.4	2398.1	1582.6	1460.0	410.6	279.4
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°	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7	11890.7
2.5°	11907.8	11942.0	11850.8	11762.4	11682.5	11571.3	11471.5	11388.8	11331.8	11323.3	11294.7
5°	11947.7	11950.6	11776.6	11542.8	11314.7	11063.8	10804.3	10618.9	10445.0	10348.0	10299.6
7.5°	11976.2	11950.6	11636.9	11257.7	10818.5	10362.3	9906.1	9541.1	9258.8	9147.6	9190.3
10°	11964.8	11885.0	11425.9	10818.5	10179.8	9498.3	8842.5	8329.2	7858.7	7616.3	7622.0
12.5°	11902.1	11770.9	11112.2	10325.2	9387.1	8474.6	7470.9	6778.0	6233.4	5911.1	5811.3
15°	11847.9	11619.8	10744.4	9655.1	8488.9	7185.7	5962.5	5107.0	4650.8	4397.0	4394.1
17.5°	11790.9	11474.4	10342.3	8945.1	7456.6	5780.0	4496.8	3843.8	3629.9	3655.6	3612.8
20°	11731.0	11303.3	9923.2	8155.3	6199.1	4311.4	3367.6	3102.4	3162.3	3279.2	3296.3
22.5°	11662.6	11120.8	9472.6	7285.6	4876.0	3245.0	2731.7	2691.8	2845.8	3028.3	3053.9
25°	11557.1	10892.7	8905.2	6375.9	3761.1	2614.8	2392.4	2420.9	2572.0	2726.0	2743.1
27.5°	11408.8	10610.4	8332.0	5241.0	2825.8	2244.1	2187.1	2224.2	2298.3	2392.4	2415.2
30°	11209.2	10291.0	7673.4	4260.1	2264.1	2058.8	2036.0	2055.9	2098.7	2138.6	2150.0
32.5°	11009.6	9983.1	7009.0	3262.1	2018.9	1936.2	1913.3	1913.3	1913.3	1919.1	1921.9
35°	10824.2	9692.2	6296.1	2540.7	1890.5	1839.2	1807.8	1773.6	1767.9	1748.0	1748.0
37.5°	10721.6	9427.0	5537.6	2127.2	1796.4	1759.4	1716.6	1659.6	1628.2	1631.1	1625.3
40°	10741.6	9253.1	4847.5	1893.4	1719.4	1679.5	1613.9	1548.4	1528.4	1528.4	1522.7
42.5°	10966.8	9196.0	4186.0	1770.8	1645.3	1599.7	1517.0	1457.1	1445.7	1442.9	1448.6
45°	11485.8	9335.8	3592.9	1690.9	1582.6	1514.1	1431.4	1377.3	1365.9	1365.9	1363.0
47.5°	12498.1	9789.2	3168.0	1639.6	1537.0	1448.6	1363.0	1308.8	1288.9	1283.2	1283.2
50°	14072.1	10772.9	2851.5	1594.0	1479.9	1388.7	1300.3	1237.5	1206.2	1203.3	1200.5
52.5°	16259.2	12307.0	2728.9	1559.8	1417.2	1325.9	1229.0	1169.1	1129.2	1120.6	1114.9
55°	18817.0	14448.5	2897.1	1534.1	1351.6	1254.7	1154.9	1092.1	1055.1	1037.9	1035.1
57.5°	21779.7	17020.5	3535.8	1499.9	1291.7	1177.7	1080.7	1018.0	978.1	958.1	952.4
60°	24440.1	19663.9	4650.8	1479.9	1240.4	1095.0	995.2	938.1	901.1	881.1	878.3
62.5°	27362.9	22184.6	5982.4	1534.1	1217.6	1015.1	915.3	864.0	832.6	812.7	812.7
65°	30485.3	24708.1	6863.5	1716.6	1251.8	952.4	829.8	787.0	758.5	744.2	741.4
67.5°	32589.6	25580.7	5654.5	1904.8	1337.3	884.0	747.1	712.9	695.8	681.5	681.5
69°	32361.5	24477.2	4171.7	1953.3	1363.0	849.7	701.5	675.8	653.0	647.3	641.6
70°	31640.1	23219.7	3495.9	1921.9	1343.1	818.4	673.0	641.6	621.6	615.9	613.1
72.5°	28181.3	20137.2	2603.4	1671.0	1143.4	710.0	596.0	567.4	550.3	541.8	541.8
75°	23413.6	16458.8	2033.1	1328.8	895.4	598.8	510.4	487.6	473.3	467.6	464.8
77.5°	13122.5	9190.3	1460.0	1040.8	678.7	484.8	427.7	407.8	393.5	387.8	387.8
80°	3655.6	2626.2	858.3	687.2	461.9	367.8	339.3	325.1	305.1	290.9	299.4
82.5°	1377.3	1137.7	490.5	413.5	293.7	245.2	236.7	225.3	216.7	196.8	196.8
85°	670.1	553.2	313.7	219.6	162.5	128.3	122.6	116.9	111.2	97.0	99.8
87.5°	231.0	245.2	136.9	79.8	48.5	31.4	25.7	14.3	14.3	14.3	14.3
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)