

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: P455537

Luminaire Tested: **GALN-SA6D-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37552 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

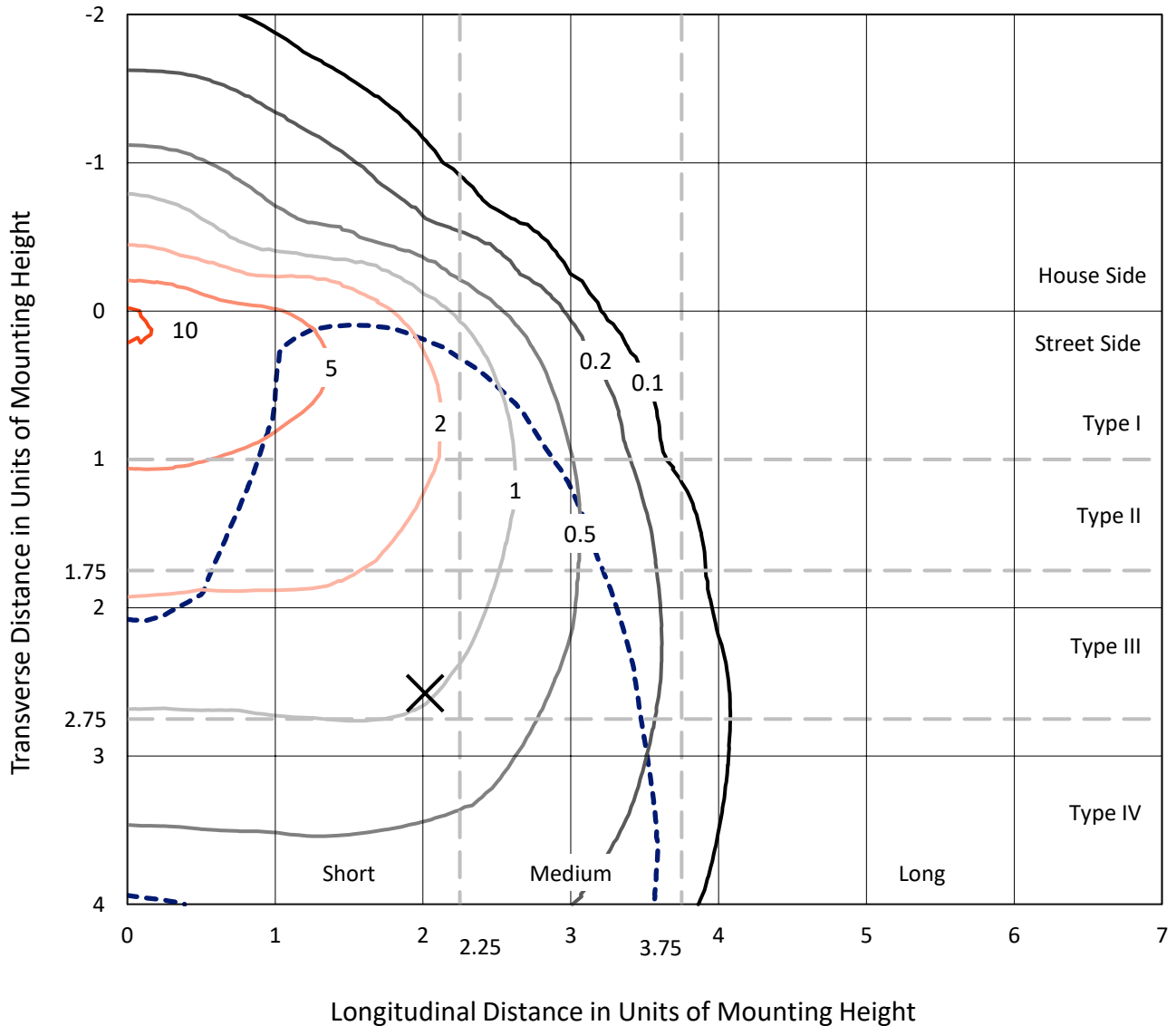
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

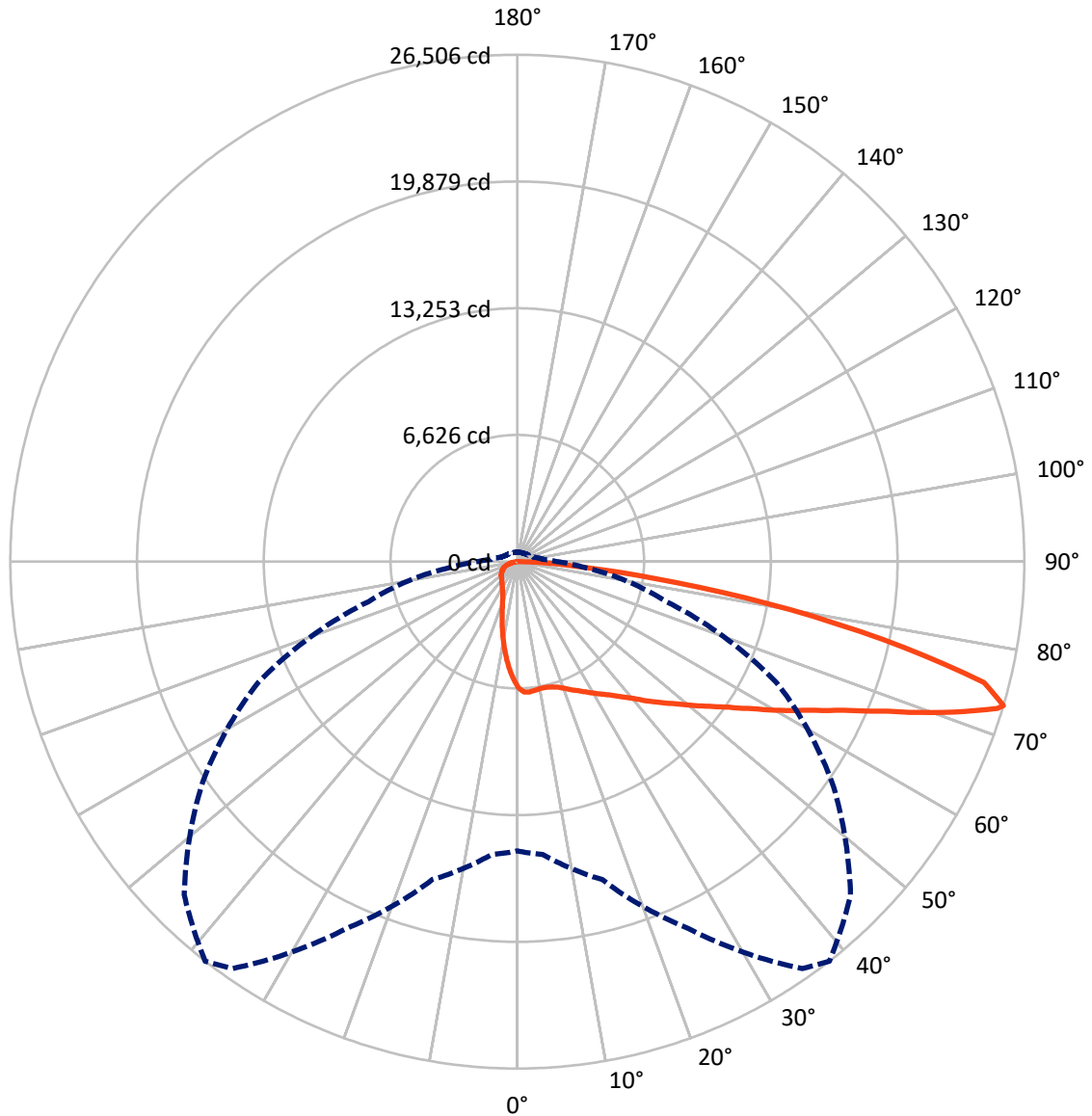
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5048.1	0.0	5048.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32503.9	0.0	32503.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	37552.0	0.0	37552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.9	1.5
10°-20°	1476.7	3.9
20°-30°	2299.5	6.1
30°-40°	3372.9	9.0
40°-50°	5003.3	13.3
50°-60°	7088.7	18.9
60°-70°	8992.2	23.9
70°-80°	7485.3	19.9
80°-90°	1257.6	3.3
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°	37552.0	100.0
0°-180°	37552.0	100.0

Coefficient of Utilization



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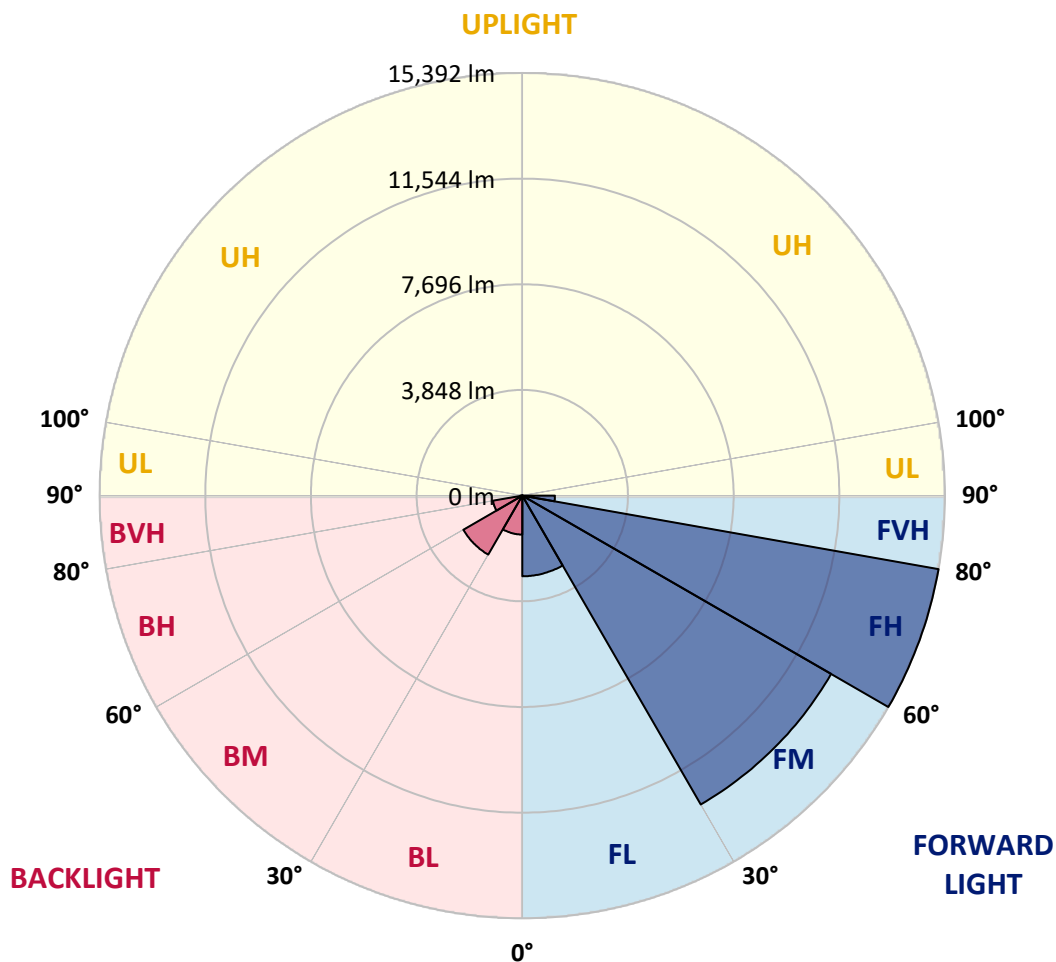
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2935.6	7.8			
FM	(30°-60°)	12986.5	34.6			
FH	(60°-80°)	15392.4	41.0			G5
FVH	(80°-90°)	1189.4	3.2			G5
BL	(0°-30°)	1416.5	3.8	B3/2500		
BM	(30°-60°)	2478.3	6.6	B2/2500		
BH	(60°-80°)	1085.0	2.9	B3/2500		G3/2500
BVH	(80°-90°)	68.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2
2.5°	6862.3	6896.3	6879.3	6856.0	6841.1	6826.3	6805.1	6743.6	6694.8	6641.8	6559.1
5°	6913.2	6934.4	6919.6	6889.9	6856.0	6841.1	6800.8	6720.2	6641.8	6552.7	6429.7
7.5°	6883.5	6892.0	6875.1	6839.0	6809.3	6781.7	6735.1	6646.0	6550.6	6442.4	6281.3
10°	6777.5	6809.3	6809.3	6779.6	6749.9	6735.1	6688.4	6603.6	6516.7	6393.7	6202.8
12.5°	6690.6	6724.5	6752.1	6743.6	6741.5	6741.5	6705.4	6641.8	6540.0	6423.4	6196.5
15°	6631.2	6671.5	6730.8	6764.8	6786.0	6792.3	6777.5	6722.4	6618.5	6482.7	6221.9
17.5°	6618.5	6667.2	6775.4	6849.6	6904.7	6902.6	6898.4	6822.0	6707.5	6567.6	6253.7
20°	6675.7	6739.3	6889.9	7006.5	7087.1	7072.3	7048.9	6949.3	6815.7	6658.7	6283.4
22.5°	6847.5	6913.2	7078.6	7205.9	7284.3	7284.3	7214.4	7082.9	6940.8	6764.8	6323.7
25°	7093.5	7165.6	7341.6	7470.9	7507.0	7479.4	7409.4	7250.4	7087.1	6917.5	6408.5
27.5°	7394.6	7481.5	7644.8	7753.0	7742.4	7721.2	7649.1	7445.5	7282.2	7127.4	6552.7
30°	7770.0	7833.6	8003.2	8028.7	7990.5	7986.3	7884.5	7680.9	7528.2	7409.4	6758.4
32.5°	8124.1	8181.4	8317.1	8327.7	8259.8	8268.3	8172.9	7986.3	7899.3	7856.9	7104.1
35°	8499.4	8529.1	8645.8	8633.0	8588.5	8582.2	8544.0	8365.8	8393.4	8469.8	7593.9
37.5°	8813.3	8872.7	8938.4	8949.0	8946.9	8968.1	8993.6	8908.7	9067.8	9307.4	8236.5
40°	9101.7	9152.6	9250.1	9284.1	9366.8	9409.2	9496.1	9498.3	9865.1	10259.6	9027.5
42.5°	9296.8	9383.7	9566.1	9627.6	9829.1	9956.3	10085.7	10223.5	10755.8	11262.6	9960.6
45°	9466.4	9581.0	9884.2	10075.1	10348.6	10503.4	10777.0	11065.4	11830.9	12494.7	10908.5
47.5°	9723.0	9824.8	10172.6	10509.8	10923.3	11101.4	11510.7	11941.2	12942.1	13669.5	11816.1
50°	10079.3	10140.8	10495.0	11044.2	11572.2	11801.3	12342.0	12963.4	14129.7	14829.5	12613.4
52.5°	10535.2	10560.7	10842.7	11574.3	12269.9	12554.1	13270.8	13996.1	15168.8	15836.8	13245.4
55°	11073.9	11031.5	11252.0	12136.3	13067.3	13438.4	14208.2	15041.6	16337.3	16651.1	13705.6
57.5°	11606.2	11540.4	11716.4	12819.2	14051.2	14498.7	15395.7	16118.8	17380.6	17412.4	14027.9
60°	12170.2	12121.5	12331.4	13620.7	15257.9	15788.0	16617.2	17236.4	18390.0	17942.6	14078.8
62.5°	12749.2	12670.7	12969.7	14522.0	16617.2	17098.6	17902.3	18423.9	19380.3	18139.8	13588.9
65°	13311.1	13275.1	13737.4	15592.9	18165.2	18712.4	19492.7	19846.9	20173.5	17842.9	12373.8
67.5°	13909.1	13981.3	14719.2	17022.2	20184.1	20871.1	21713.0	21380.1	20400.4	16436.9	10420.7
70°	14821.0	14867.7	16008.6	18894.7	22786.1	23615.2	24022.4	21925.1	19306.1	13767.1	7833.6
72.5°	15213.3	15419.0	17160.1	20860.5	25742.2	26249.0	24798.5	20710.0	16082.8	9351.9	4116.1
73°	15126.4	15372.4	17213.1	21159.6	25973.4	26505.6	24633.1	20084.4	14950.4	8054.1	3528.7
75°	14042.7	14346.0	16523.9	20909.3	25523.8	25205.7	21973.9	17117.6	10102.6	3662.3	1607.4
77.5°	11080.2	11167.2	13092.7	16884.4	20099.2	19509.7	16445.4	10698.5	4126.7	1361.4	911.9
80°	5558.1	5878.4	7379.8	9672.1	13440.5	13247.5	10380.4	5059.8	1719.8	799.5	604.4
82.5°	2674.1	2901.0	3594.5	4716.3	7426.4	7250.4	5140.4	2765.3	1092.1	466.5	356.3
85°	1721.9	1891.6	2288.1	2250.0	3053.7	2915.9	2309.4	2093.1	646.8	243.9	248.1
87.5°	1136.7	1244.8	1492.9	1193.9	1111.2	1005.2	1020.0	1179.1	127.2	93.3	33.9
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°	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2	6597.2
2.5°	6525.1	6497.6	6406.4	6317.3	6232.5	6151.9	6098.9	6028.9	5982.3	5995.0	6014.1
5°	6361.9	6300.4	6139.2	5982.3	5833.8	5657.8	5515.7	5401.2	5314.3	5282.5	5276.1
7.5°	6190.1	6086.2	5855.0	5585.7	5333.4	5114.9	4862.6	4737.5	4591.1	4540.2	4523.3
10°	6086.2	5946.2	5621.8	5246.4	4866.8	4504.2	4230.6	4008.0	3806.5	3768.3	3749.3
12.5°	6056.5	5872.0	5435.2	4951.6	4446.9	4001.6	3596.6	3303.9	3108.8	3064.3	2998.6
15°	6039.5	5810.5	5261.3	4654.8	4014.3	3471.5	3045.2	2703.8	2525.7	2406.9	2409.0
17.5°	6024.7	5740.5	5066.2	4330.3	3641.1	3015.5	2544.7	2237.3	2074.0	2010.3	2004.0
20°	6003.5	5657.8	4841.4	3988.9	3214.9	2599.9	2173.6	1944.6	1834.3	1781.3	1779.2
22.5°	5995.0	5577.2	4620.8	3641.1	2837.4	2279.7	1927.6	1766.5	1696.5	1660.4	1660.4
25°	6016.2	5520.0	4389.7	3310.3	2502.3	2006.1	1758.0	1647.7	1607.4	1588.3	1582.0
27.5°	6081.9	5494.5	4160.7	2979.5	2194.8	1819.5	1643.5	1567.1	1537.4	1522.6	1524.7
30°	6207.1	5492.4	3935.9	2652.9	1965.8	1677.4	1552.3	1499.3	1476.0	1467.5	1465.3
32.5°	6408.5	5539.1	3715.3	2383.6	1772.8	1558.7	1467.5	1429.3	1418.7	1412.3	1410.2
35°	6749.9	5670.5	3496.9	2137.6	1624.4	1452.6	1386.9	1367.8	1353.0	1359.3	1361.4
37.5°	7210.1	5897.4	3289.1	1944.6	1512.0	1374.2	1319.0	1302.1	1293.6	1299.9	1306.3
40°	7827.2	6224.0	3115.2	1789.8	1431.4	1308.4	1259.6	1244.8	1236.3	1246.9	1249.0
42.5°	8507.9	6601.5	2971.0	1668.9	1365.7	1253.3	1206.6	1189.7	1183.3	1189.7	1191.8
45°	9207.7	7040.5	2896.8	1582.0	1310.5	1213.0	1164.2	1145.1	1130.3	1126.0	1132.4
47.5°	9896.9	7422.2	2894.6	1529.0	1266.0	1176.9	1123.9	1102.7	1083.6	1073.0	1070.9
50°	10458.9	7725.4	2945.5	1505.6	1227.8	1136.7	1083.6	1062.4	1037.0	1015.8	1020.0
52.5°	10883.0	7922.6	2968.9	1495.0	1206.6	1094.2	1041.2	1022.1	992.5	964.9	964.9
55°	11156.6	7969.3	2911.6	1484.4	1189.7	1049.7	992.5	975.5	945.8	918.2	918.2
57.5°	11249.9	7825.1	2705.9	1459.0	1172.7	1011.5	943.7	928.8	905.5	877.9	873.7
60°	11033.6	7337.3	2345.4	1382.6	1138.8	971.2	890.7	884.3	875.8	852.5	850.4
62.5°	10200.2	6302.5	1953.1	1283.0	1081.5	928.8	841.9	852.5	858.9	846.1	844.0
65°	8813.3	5117.1	1668.9	1145.1	1005.2	869.5	788.9	816.4	833.4	833.4	829.2
67.5°	7148.6	3929.5	1406.0	1026.4	909.7	788.9	729.5	750.7	763.4	759.2	769.8
70°	5081.0	2661.4	1145.1	890.7	788.9	697.7	653.2	653.2	644.7	640.4	640.4
72.5°	2464.2	1520.5	928.8	744.3	672.2	595.9	559.8	545.0	528.0	525.9	515.3
73°	2059.1	1363.6	886.4	716.8	644.7	581.0	540.8	517.4	506.8	498.3	496.2
75°	1253.3	1034.9	740.1	604.4	549.2	500.5	464.4	443.2	432.6	426.2	424.1
77.5°	824.9	771.9	574.7	462.3	419.9	390.2	375.3	354.1	347.8	339.3	339.3
80°	615.0	589.5	411.4	326.6	301.1	275.7	271.4	267.2	250.2	239.6	235.4
82.5°	396.6	419.9	279.9	218.4	190.9	169.6	171.8	178.1	161.2	146.3	142.1
85°	282.0	303.2	169.6	99.7	80.6	70.0	78.5	70.0	72.1	57.3	46.7
87.5°	46.7	80.6	29.7	12.7	6.4	4.2	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)