

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: P455564

Luminaire Tested: **GALN-SA6D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455564
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-SA6D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 41408 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

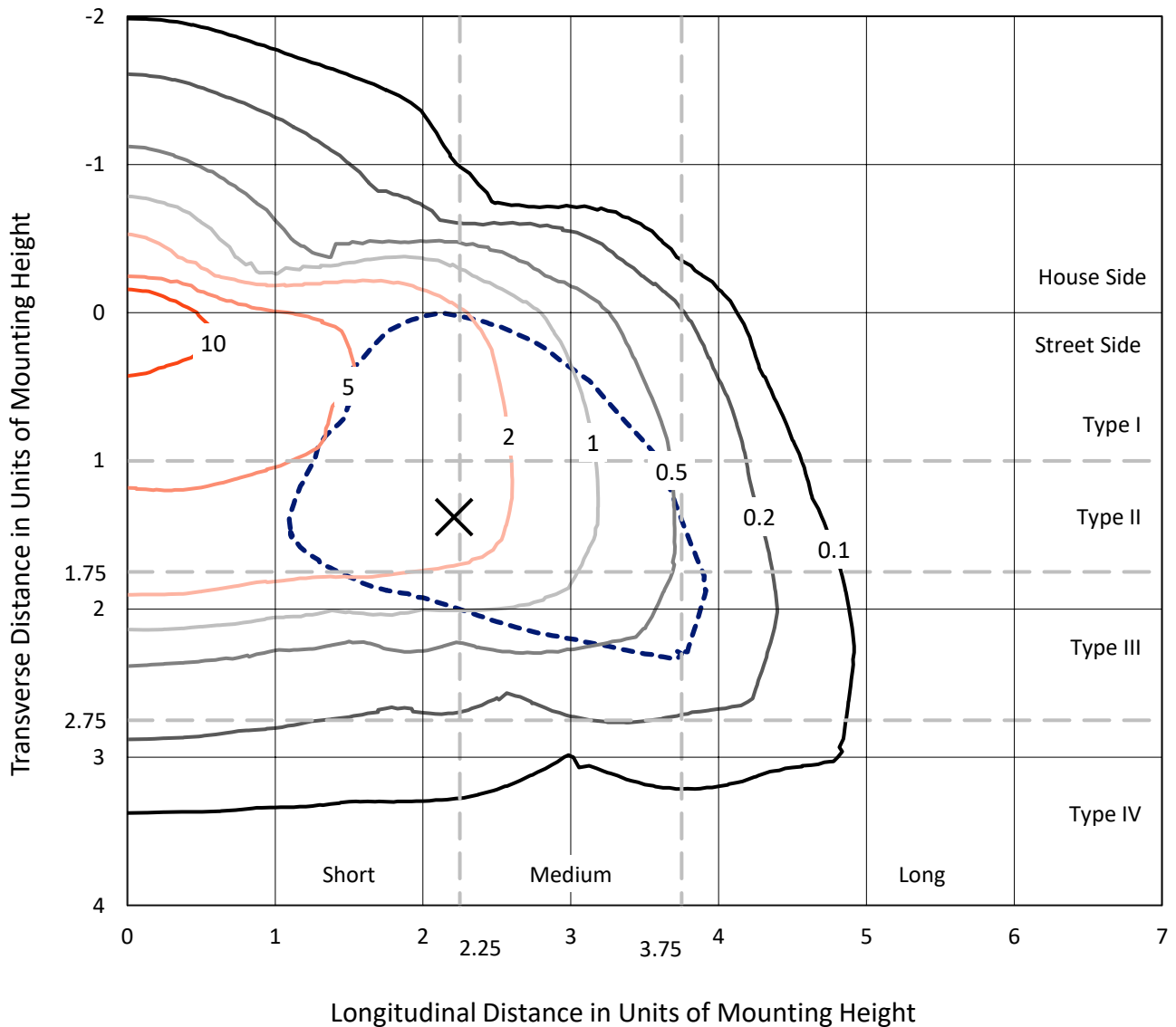
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

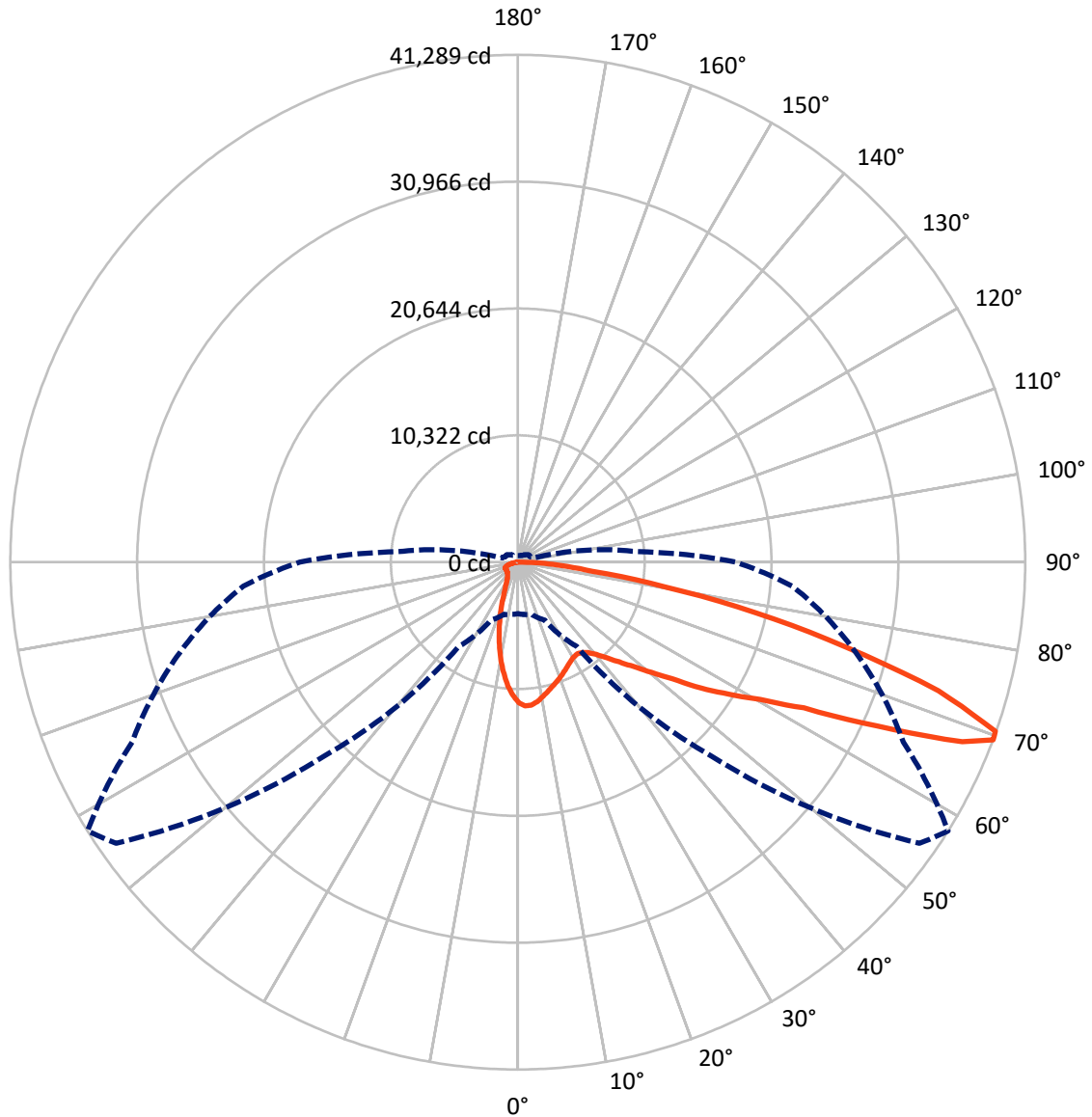
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	6068.3	0.0	6068.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35339.7	0.0	35339.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	41408.0	0.0	41408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.8	2.3
10°-20°	2133.8	5.2
20°-30°	2756.9	6.7
30°-40°	3580.7	8.6
40°-50°	5205.9	12.6
50°-60°	8306.9	20.1
60°-70°	11096.9	26.8
70°-80°	6396.9	15.4
80°-90°	958.1	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°	41408.0	100.0
0°-180°	41408.0	100.0

Coefficient of Utilization



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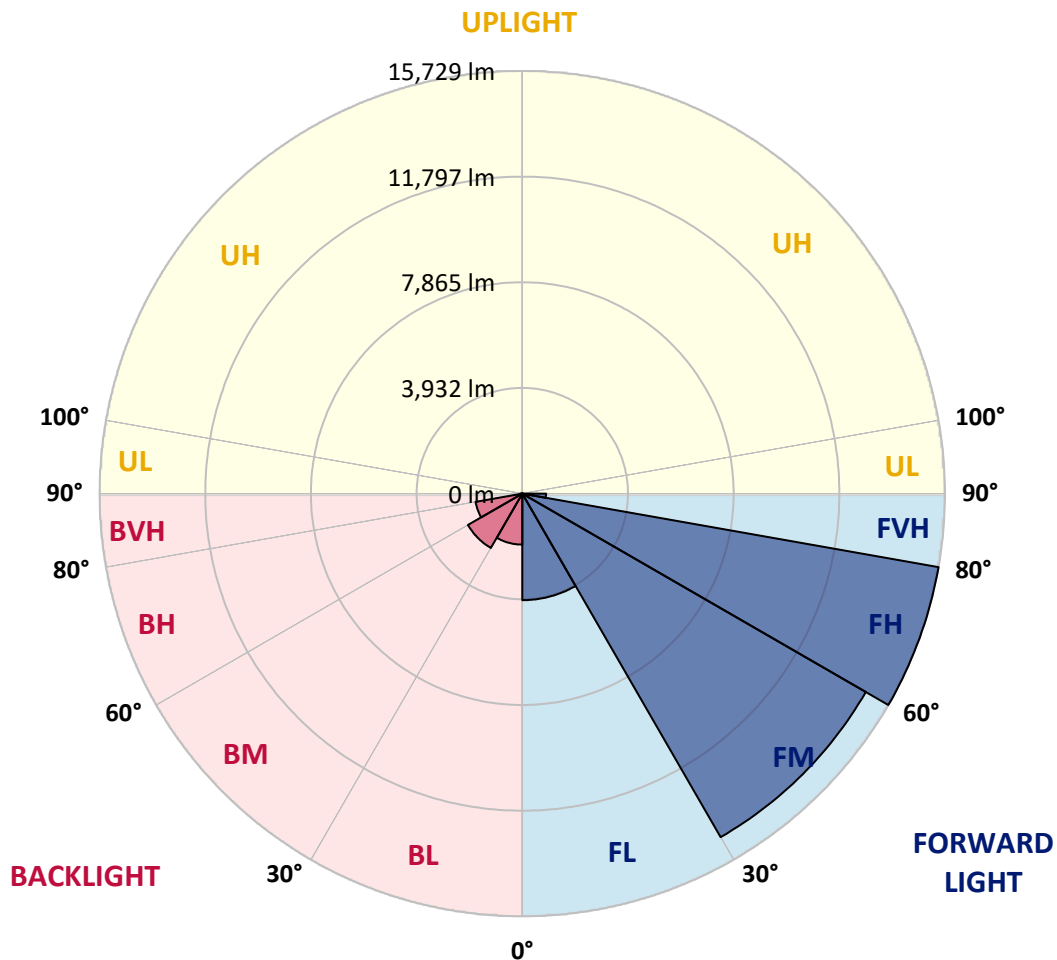
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3965.8	9.6			
FM	(30°-60°)	14759.8	35.6			
FH	(60°-80°)	15729.3	38.0			G5
FVH	(80°-90°)	884.7	2.1			G5
BL	(0°-30°)	1896.7	4.6	B3/2500		
BM	(30°-60°)	2333.7	5.6	B2/2500		
BH	(60°-80°)	1764.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	73.4	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°	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7
2.5°	11867.7	11900.0	11890.8	11879.2	11860.7	11809.9	11726.8	11712.9	11659.8	11546.7	11405.8
5°	11685.2	11712.9	11715.2	11731.4	11754.5	11745.3	11685.2	11678.3	11599.8	11447.4	11211.8
7.5°	11059.4	11096.3	11177.2	11267.2	11348.1	11424.3	11442.7	11454.3	11405.8	11230.3	10916.2
10°	10355.1	10392.0	10428.9	10562.9	10761.5	10950.9	11107.9	11128.7	11140.2	10978.6	10595.2
12.5°	9574.5	9650.7	9729.2	9927.8	10193.4	10491.3	10768.4	10812.3	10890.8	10768.4	10318.1
15°	8911.7	8990.2	9103.4	9281.2	9602.2	10031.7	10422.0	10493.6	10648.3	10586.0	10059.5
17.5°	8452.2	8479.9	8558.4	8761.6	9108.0	9560.6	10082.5	10225.7	10472.8	10456.7	9837.8
20°	8089.6	8124.2	8172.7	8297.4	8657.7	9135.7	9766.2	9950.9	10285.8	10341.2	9618.4
22.5°	7937.2	7962.6	7955.7	8022.6	8267.4	8747.8	9445.2	9664.6	10119.5	10262.7	9415.2
25°	7946.4	7969.5	7934.9	7918.7	8064.2	8406.0	9110.3	9389.7	9985.6	10209.6	9230.4
27.5°	8101.1	8117.3	8052.6	7988.0	7999.5	8193.5	8833.2	9142.7	9872.4	10232.7	9075.7
30°	8309.0	8339.0	8297.4	8218.9	8133.5	8142.7	8655.4	8960.2	9819.3	10313.5	9001.8
32.5°	8576.9	8604.6	8586.1	8523.7	8412.9	8290.5	8611.5	8893.2	9823.9	10477.4	8985.6
35°	8858.6	8914.0	8944.0	8939.4	8849.4	8636.9	8784.7	9017.9	9934.8	10752.3	9080.3
37.5°	9177.3	9223.5	9352.8	9435.9	9352.8	9105.7	9175.0	9336.6	10179.5	11149.5	9288.1
40°	9486.7	9556.0	9745.4	10004.0	9971.7	9754.6	9770.8	9877.0	10611.4	11740.7	9694.6
42.5°	9810.0	9893.2	10223.4	10606.8	10683.0	10514.4	10558.3	10653.0	11225.7	12560.5	10392.0
45°	10225.7	10325.0	10731.5	11209.5	11509.7	11405.8	11530.5	11576.7	12047.8	13627.4	11311.1
47.5°	10761.5	10877.0	11378.1	11973.9	12398.8	12493.5	12710.6	12682.9	13066.2	14890.6	12502.7
50°	11664.4	11729.1	12202.5	12809.9	13394.1	13821.4	14056.9	14100.8	14329.4	16119.1	13835.2
52.5°	12738.3	12796.0	13137.8	13668.9	14401.0	15306.3	15888.2	15745.0	15800.5	17615.6	15394.0
55°	13946.1	14043.1	14260.1	14613.5	15562.6	16895.1	18063.6	18098.2	17484.0	19047.4	16888.2
57.5°	14881.3	15045.3	15417.1	15920.5	17123.7	18661.7	20232.1	20255.2	19470.0	20576.2	18537.0
60°	14410.2	14604.2	15454.1	16680.3	19172.1	21744.7	22823.1	22691.5	21402.9	22317.4	20548.4
62.5°	12378.0	12412.7	13648.2	15564.9	19802.5	25869.2	26679.7	26123.2	23982.4	24525.1	22592.2
65°	8011.1	8237.4	9216.5	11902.3	17731.1	28157.7	33436.8	32150.5	27598.8	27030.7	24303.4
67.5°	5057.4	4999.7	5406.1	6796.4	12195.6	26141.7	39203.2	39000.0	32328.4	28612.6	23894.7
69°	4193.7	4258.4	4397.0	5209.9	8392.1	22319.7	39884.5	41288.6	34621.5	28487.9	22409.8
70°	3803.5	3833.5	3979.0	4618.7	6475.4	18694.1	38766.8	41226.2	35522.2	27966.0	21333.6
72.5°	3018.3	3016.0	3265.4	3842.7	4840.4	10671.4	31831.9	35792.4	34515.3	25536.6	17627.1
75°	2293.2	2330.1	2604.9	3251.5	4459.3	5831.1	22213.5	27564.2	27566.5	20169.7	10999.4
77.5°	1653.5	1676.6	1997.6	2729.6	4200.7	4727.2	14795.9	19770.2	18585.5	9242.0	3457.1
80°	1083.1	1096.9	1341.7	2161.5	3787.3	4459.3	8773.2	12100.9	8766.2	2452.5	1143.1
82.5°	593.5	662.8	819.8	1399.5	3039.1	4119.9	5332.3	6124.4	3288.5	1092.3	595.8
85°	297.9	316.4	461.9	817.5	1986.0	3408.6	3713.4	3512.5	1697.4	542.7	309.5
87.5°	87.8	110.8	191.7	316.4	806.0	1775.9	2066.9	1854.4	653.5	196.3	64.7
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°	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7	11442.7
2.5°	11348.1	11306.5	11121.7	10955.5	10803.1	10641.4	10505.2	10385.1	10396.6	10398.9	10276.5
5°	11089.4	10994.7	10643.7	10315.8	10038.7	9687.7	9387.4	9193.5	9096.5	8967.1	9013.3
7.5°	10738.4	10556.0	10068.7	9523.7	9013.3	8558.4	8064.2	7724.7	7507.6	7297.5	7325.2
10°	10375.8	10082.5	9373.6	8653.1	7992.6	7265.2	6634.7	6094.3	5692.5	5542.4	5443.1
12.5°	10004.0	9618.4	8717.7	7759.4	6847.2	5976.6	5082.8	4503.2	4059.8	3824.3	3854.3
15°	9664.6	9195.8	8034.2	6865.6	5681.0	4644.1	3752.7	3200.7	2891.3	2826.6	2863.6
17.5°	9350.5	8736.2	7394.5	5997.3	4614.0	3482.5	2819.7	2507.9	2383.2	2348.6	2346.3
20°	9027.2	8345.9	6676.3	5069.0	3595.6	2699.6	2314.0	2168.5	2145.4	2159.2	2161.5
22.5°	8699.3	7863.3	5937.3	4147.6	2863.6	2207.7	2023.0	1983.7	2002.2	2034.5	2039.1
25°	8396.7	7438.4	5226.0	3339.3	2286.2	1939.8	1849.8	1849.8	1891.3	1939.8	1942.1
27.5°	8147.3	7027.3	4517.1	2651.1	1914.4	1745.9	1715.8	1732.0	1789.7	1826.7	1829.0
30°	7941.8	6644.0	3847.3	2124.6	1683.5	1591.1	1584.2	1611.9	1653.5	1688.1	1690.4
32.5°	7787.1	6306.8	3221.5	1785.1	1524.2	1473.4	1471.0	1491.8	1514.9	1524.2	1533.4
35°	7727.0	6027.4	2648.8	1570.3	1417.9	1385.6	1385.6	1383.3	1392.5	1397.1	1401.8
37.5°	7775.5	5812.6	2205.4	1431.8	1339.4	1316.3	1302.5	1288.6	1284.0	1284.0	1286.3
40°	7981.1	5699.4	1875.2	1341.7	1284.0	1249.3	1223.9	1207.8	1191.6	1196.2	1200.9
42.5°	8417.5	5720.2	1651.2	1281.7	1235.5	1187.0	1150.0	1131.6	1120.0	1133.9	1131.6
45°	9112.6	5928.1	1508.0	1240.1	1187.0	1124.6	1090.0	1071.5	1071.5	1092.3	1099.2
47.5°	10084.9	6325.3	1431.8	1207.8	1150.0	1076.1	1041.5	1027.7	1032.3	1066.9	1069.2
50°	11271.9	7015.8	1417.9	1191.6	1131.6	1041.5	1002.3	988.4	999.9	1036.9	1041.5
52.5°	12581.2	7904.8	1484.9	1193.9	1115.4	1020.7	969.9	949.1	960.7	990.7	999.9
55°	14133.1	9017.9	1658.1	1203.2	1092.3	1009.2	946.8	900.6	914.5	935.3	937.6
57.5°	15717.3	10422.0	1962.9	1205.5	1073.8	988.4	907.6	847.5	847.5	861.4	868.3
60°	17652.5	11950.8	2364.8	1207.8	1076.1	958.4	854.5	787.5	778.2	785.2	787.5
62.5°	19573.9	13230.2	2431.7	1200.9	1099.2	928.4	796.7	727.4	711.3	709.0	704.3
65°	20421.4	12992.3	1993.0	1168.5	1124.6	909.9	750.5	669.7	642.0	632.8	632.8
67.5°	19040.5	10990.1	1498.8	1124.6	1108.5	891.4	706.7	621.2	588.9	570.4	570.4
69°	17742.6	9775.4	1346.3	1094.6	1066.9	861.4	678.9	595.8	556.5	535.8	528.8
70°	16740.4	8939.4	1281.7	1069.2	1027.7	826.7	658.2	577.3	533.5	510.4	505.7
72.5°	13359.5	7013.4	1122.3	972.2	875.2	695.1	584.3	519.6	478.0	452.6	445.7
75°	7699.3	3801.2	930.7	845.2	704.3	540.4	494.2	452.6	420.3	397.2	390.3
77.5°	2369.4	1468.7	674.3	667.4	517.3	418.0	394.9	378.7	355.6	330.2	325.6
80°	997.6	748.2	457.2	450.3	344.1	291.0	284.0	281.7	272.5	251.7	244.8
82.5°	547.3	422.6	318.7	277.1	207.8	168.6	175.5	177.8	170.9	150.1	136.3
85°	267.9	230.9	154.7	124.7	94.7	60.0	57.7	69.3	64.7	46.2	50.8
87.5°	53.1	64.7	41.6	18.5	9.2	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)