

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: P456492

Luminaire Tested: **GALN-SA7D-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456492
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-SA7D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 48638 lumens
Efficiency: N/A
Efficacy: 112.3 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

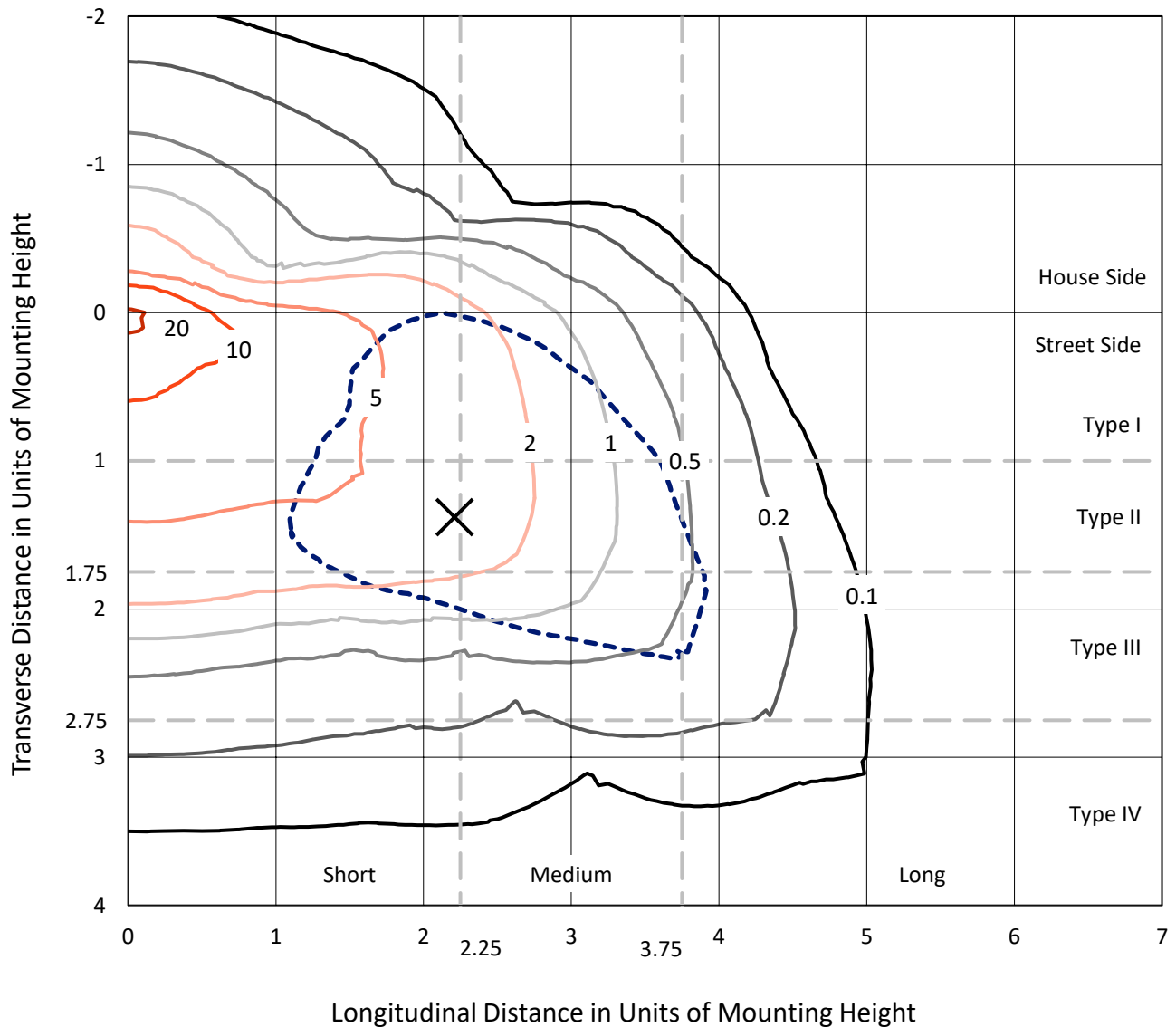
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456492
 CATALOG NUMBER: GALN-SA7D-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

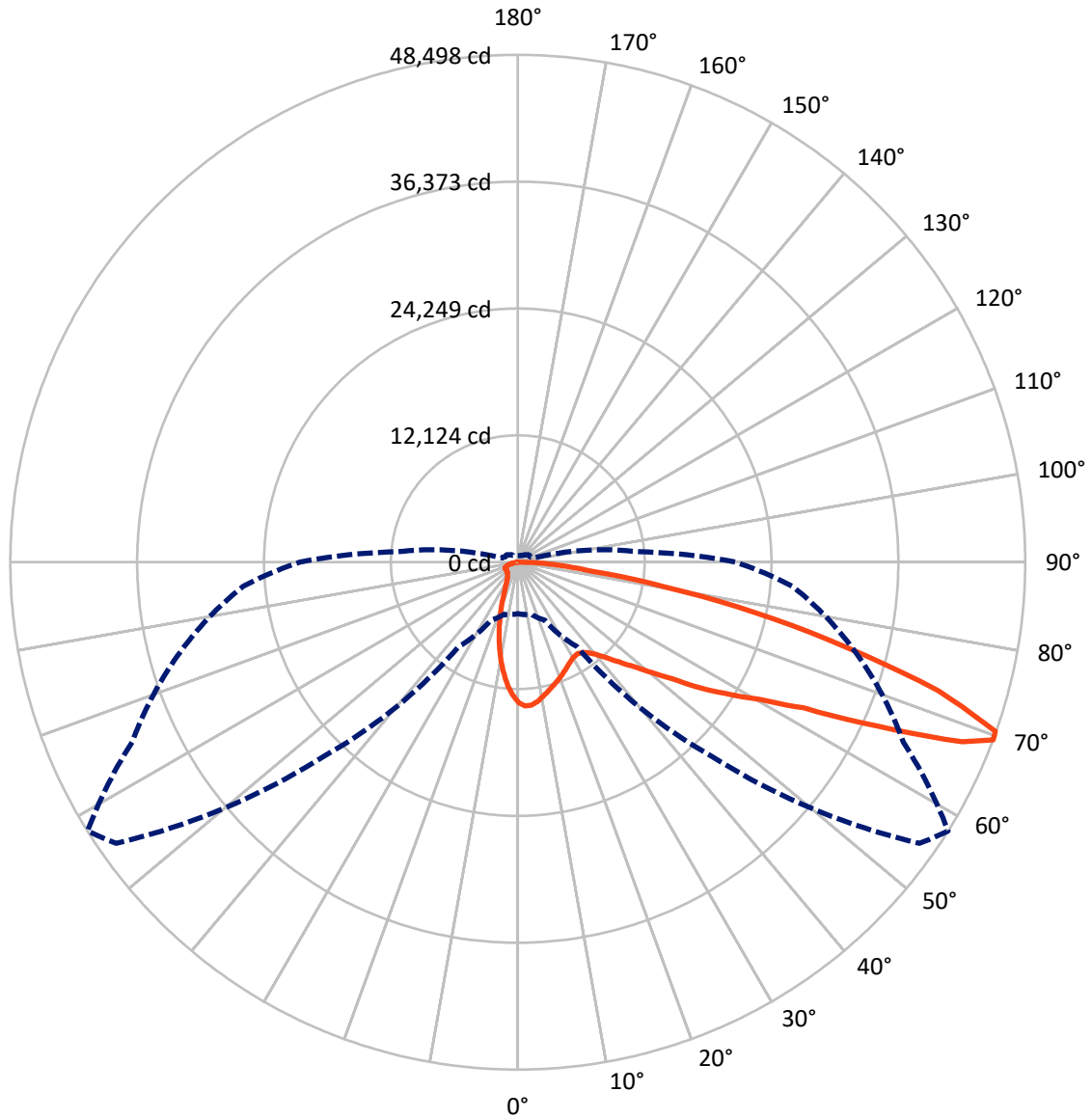
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type III - Short - N/A

REPORT NUMBER: P456492
CATALOG NUMBER: GALN-SA7D-730-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456492

CATALOG NUMBER: GALN-SA7D-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7127.9	0.0	7127.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41510.1	0.0	41510.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	48638.0	0.0	48638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.4	2.3
10°-20°	2506.4	5.2
20°-30°	3238.3	6.7
30°-40°	4205.9	8.6
40°-50°	6114.8	12.6
50°-60°	9757.3	20.1
60°-70°	13034.5	26.8
70°-80°	7513.9	15.4
80°-90°	1125.4	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°	48638.0	100.0
0°-180°	48638.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456492

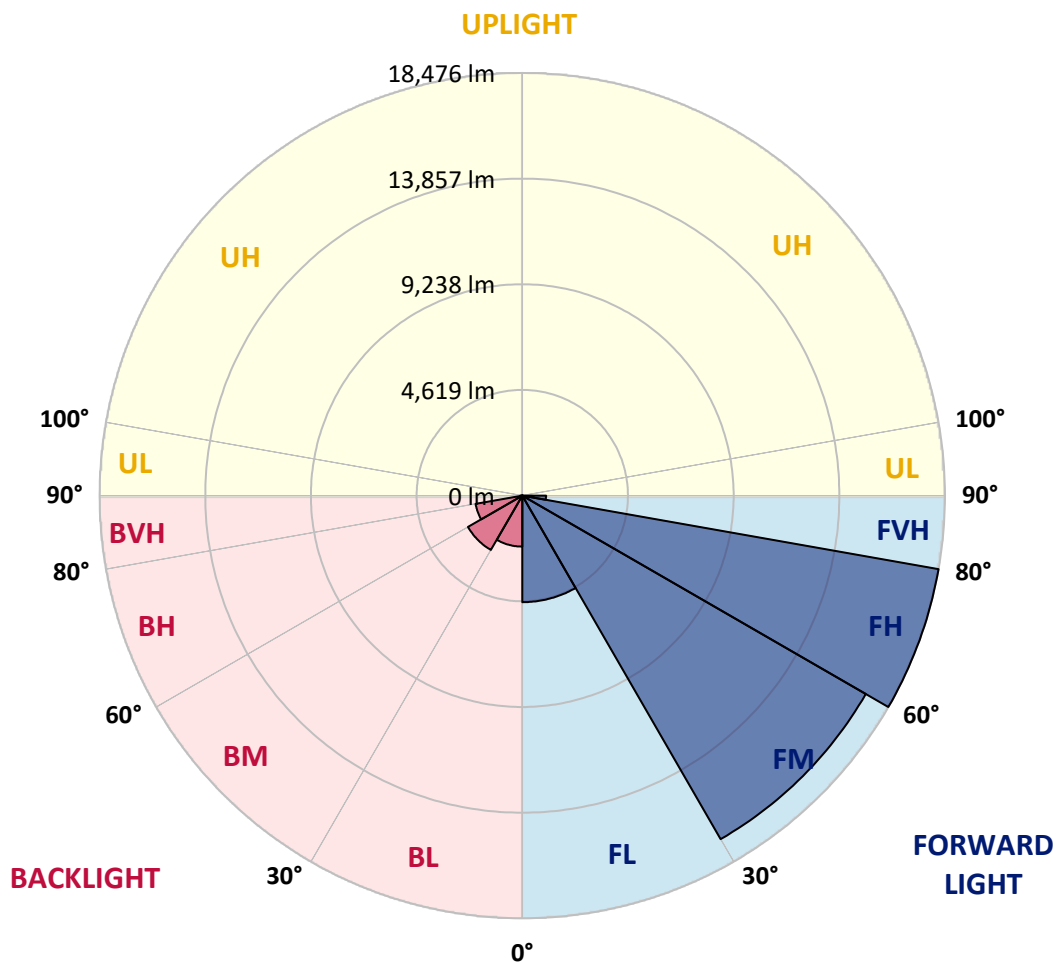
CATALOG NUMBER: GALN-SA7D-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4658.3	9.6			
FM	(30°-60°)	17336.9	35.6			
FH	(60°-80°)	18475.7	38.0			G5
FVH	(80°-90°)	1039.2	2.1			G5
BL	(0°-30°)	2227.9	4.6	B3/2500		
BM	(30°-60°)	2741.1	5.6	B3/5000		
BH	(60°-80°)	2072.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	86.2	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 III Short





REPORT NUMBER: P456492

CATALOG NUMBER: GALN-SA7D-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7
2.5°	13939.8	13977.8	13966.9	13953.4	13931.7	13872.0	13774.3	13758.1	13695.7	13562.8	13397.3
5°	13725.5	13758.1	13760.8	13779.8	13806.9	13796.0	13725.5	13717.4	13625.1	13446.1	13169.4
7.5°	12990.4	13033.8	13128.8	13234.5	13329.5	13419.0	13440.7	13454.3	13397.3	13191.1	12822.2
10°	12163.1	12206.5	12249.9	12407.2	12640.5	12862.9	13047.4	13071.8	13085.4	12895.5	12445.2
12.5°	11246.2	11335.8	11428.0	11661.3	11973.2	12323.1	12648.6	12700.2	12792.4	12648.6	12119.7
15°	10467.7	10560.0	10692.9	10901.7	11278.8	11783.3	12241.7	12325.8	12507.6	12434.3	11815.9
17.5°	9927.9	9960.5	10052.7	10291.4	10698.3	11230.0	11843.0	12011.2	12301.4	12282.4	11555.5
20°	9502.1	9542.8	9599.7	9746.2	10169.4	10730.9	11471.4	11688.4	12081.7	12146.8	11297.8
22.5°	9323.0	9352.9	9344.7	9423.4	9710.9	10275.1	11094.3	11352.0	11886.4	12054.6	11059.1
25°	9333.9	9361.0	9320.3	9301.3	9472.2	9873.7	10701.0	11029.2	11729.1	11992.2	10842.1
27.5°	9515.6	9534.6	9458.7	9382.7	9396.3	9624.1	10375.5	10739.0	11596.2	12019.3	10660.3
30°	9759.8	9795.0	9746.2	9654.0	9553.6	9564.5	10166.6	10524.7	11533.8	12114.3	10573.5
32.5°	10074.4	10107.0	10085.3	10012.0	9881.8	9738.1	10115.1	10446.0	11539.2	12306.8	10554.5
35°	10405.3	10470.5	10505.7	10500.3	10394.5	10144.9	10318.5	10592.5	11669.4	12629.6	10665.8
37.5°	10779.7	10833.9	10985.8	11083.5	10985.8	10695.6	10777.0	10966.8	11956.9	13096.2	10909.9
40°	11143.2	11224.5	11447.0	11750.8	11712.8	11457.8	11476.8	11601.6	12464.2	13790.6	11387.3
42.5°	11522.9	11620.6	12008.5	12458.8	12548.3	12350.2	12401.8	12513.0	13185.7	14753.6	12206.5
45°	12011.2	12127.8	12605.2	13166.7	13519.4	13397.3	13543.8	13598.0	14151.4	16006.8	13286.1
47.5°	12640.5	12776.1	13364.7	14064.6	14563.7	14674.9	14929.9	14897.3	15347.6	17490.5	14685.8
50°	13701.1	13777.1	14333.1	15046.5	15732.8	16234.6	16511.3	16562.8	16831.4	18933.6	16250.9
52.5°	14962.4	15030.3	15431.7	16055.6	16915.5	17978.8	18662.4	18494.2	18559.3	20691.3	18081.9
55°	16381.1	16495.0	16750.0	17165.0	18279.9	19845.0	21217.6	21258.3	20536.7	22373.1	19836.9
57.5°	17479.7	17672.3	18109.0	18700.3	20113.6	21920.1	23764.7	23791.8	22869.5	24168.8	21773.7
60°	16926.3	17154.2	18152.4	19592.8	22519.6	25541.4	26808.2	26653.5	25139.9	26214.1	24136.3
62.5°	14539.3	14580.0	16031.2	18282.6	23260.1	30386.0	31338.1	30684.4	28169.9	28807.3	26536.9
65°	9409.8	9675.7	10825.8	13980.5	20827.0	33074.1	39275.0	37764.2	32417.7	31750.4	28546.9
67.5°	5940.5	5872.7	6350.1	7983.0	14325.0	30706.1	46048.3	45809.6	37973.0	33608.5	28066.8
69°	4926.0	5001.9	5164.7	6119.5	9857.4	26216.8	46848.5	48497.7	40666.6	33462.0	26322.6
70°	4467.6	4502.8	4673.7	5425.1	7606.0	21958.1	45535.6	48424.5	41724.5	32849.0	25058.6
72.5°	3545.3	3542.6	3835.5	4513.7	5685.5	12534.7	37389.8	42041.8	40541.8	29995.4	20704.9
75°	2693.6	2737.0	3059.8	3819.3	5237.9	6849.2	26092.0	32377.0	32379.7	23691.4	12919.9
77.5°	1942.2	1969.3	2346.4	3206.2	4934.1	5552.6	17379.3	23222.2	21830.6	10855.6	4060.7
80°	1272.2	1288.5	1576.0	2538.9	4448.6	5237.9	10305.0	14213.8	10296.8	2880.7	1342.7
82.5°	697.1	778.5	963.0	1643.8	3569.7	4839.2	6263.3	7193.7	3862.7	1283.0	699.8
85°	349.9	371.6	542.5	960.2	2332.8	4003.7	4361.8	4125.8	1993.7	637.4	363.5
87.5°	103.1	130.2	225.1	371.6	946.7	2086.0	2427.7	2178.2	767.7	230.6	76.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456492

CATALOG NUMBER: GALN-SA7D-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7	13440.7
2.5°	13329.5	13280.7	13063.7	12868.3	12689.3	12499.4	12339.4	12198.3	12211.9	12214.6	12070.9
5°	13025.7	12914.5	12502.2	12117.0	11791.5	11379.2	11026.5	10798.7	10684.7	10532.8	10587.1
7.5°	12613.4	12399.1	11826.7	11186.6	10587.1	10052.7	9472.2	9073.5	8818.5	8571.7	8604.2
10°	12187.5	11843.0	11010.2	10163.9	9388.1	8533.7	7793.2	7158.4	6686.4	6510.1	6393.5
12.5°	11750.8	11297.8	10239.9	9114.2	8042.7	7020.1	5970.3	5289.5	4768.7	4492.0	4527.2
15°	11352.0	10801.4	9437.0	8064.4	6672.9	5454.9	4407.9	3759.6	3396.1	3320.2	3363.6
17.5°	10983.1	10261.6	8685.6	7044.5	5419.7	4090.5	3312.0	2945.8	2799.4	2758.7	2756.0
20°	10603.4	9803.2	7842.0	5954.1	4223.4	3171.0	2718.0	2547.1	2520.0	2536.2	2538.9
22.5°	10218.2	9236.2	6974.0	4871.7	3363.6	2593.2	2376.2	2330.1	2351.8	2389.8	2395.2
25°	9862.8	8737.1	6138.5	3922.4	2685.4	2278.5	2172.8	2172.8	2221.6	2278.5	2281.3
27.5°	9569.9	8254.3	5305.8	3114.0	2248.7	2050.7	2015.4	2034.4	2102.2	2145.6	2148.3
30°	9328.5	7804.0	4519.1	2495.5	1977.5	1868.9	1860.8	1893.4	1942.2	1982.9	1985.6
32.5°	9146.7	7408.0	3784.0	2096.8	1790.3	1730.6	1727.9	1752.3	1779.4	1790.3	1801.1
35°	9076.2	7079.8	3111.3	1844.5	1665.5	1627.5	1627.5	1624.8	1635.7	1641.1	1646.5
37.5°	9133.2	6827.5	2590.5	1681.8	1573.3	1546.2	1529.9	1513.6	1508.2	1508.2	1510.9
40°	9374.6	6694.6	2202.6	1576.0	1508.2	1467.5	1437.7	1418.7	1399.7	1405.1	1410.5
42.5°	9887.3	6719.0	1939.5	1505.5	1451.2	1394.3	1350.9	1329.2	1315.6	1331.9	1329.2
45°	10703.7	6963.1	1771.3	1456.6	1394.3	1321.0	1280.3	1258.6	1258.6	1283.0	1291.2
47.5°	11845.7	7429.7	1681.8	1418.7	1350.9	1264.0	1223.4	1207.1	1212.5	1253.2	1255.9
50°	13240.0	8240.7	1665.5	1399.7	1329.2	1223.4	1177.2	1161.0	1174.5	1217.9	1223.4
52.5°	14778.0	9285.1	1744.2	1402.4	1310.2	1198.9	1139.3	1114.9	1128.4	1163.7	1174.5
55°	16600.8	10592.5	1947.6	1413.2	1283.0	1185.4	1112.1	1057.9	1074.2	1098.6	1101.3
57.5°	18461.6	12241.7	2305.7	1416.0	1261.3	1161.0	1066.0	995.5	995.5	1011.8	1019.9
60°	20734.7	14037.5	2777.7	1418.7	1264.0	1125.7	1003.6	925.0	914.1	922.3	925.0
62.5°	22991.6	15540.2	2856.3	1410.5	1291.2	1090.4	935.8	854.5	835.5	832.8	827.3
65°	23987.1	15260.8	2340.9	1372.6	1321.0	1068.7	881.6	786.6	754.1	743.2	743.2
67.5°	22365.0	12909.0	1760.4	1321.0	1302.0	1047.0	830.0	729.7	691.7	670.0	670.0
69°	20840.5	11482.2	1581.4	1285.7	1253.2	1011.8	797.5	699.8	653.7	629.3	621.2
70°	19663.3	10500.3	1505.5	1255.9	1207.1	971.1	773.1	678.1	626.6	599.5	594.0
72.5°	15692.1	8238.0	1318.3	1142.0	1028.1	816.5	686.3	610.3	561.5	531.7	523.5
75°	9043.6	4464.9	1093.2	992.8	827.3	634.7	580.5	531.7	493.7	466.6	458.4
77.5°	2783.1	1725.2	792.1	783.9	607.6	491.0	463.8	444.9	417.7	387.9	382.5
80°	1171.8	878.9	537.1	528.9	404.2	341.8	333.6	330.9	320.1	295.7	287.5
82.5°	642.9	496.4	374.3	325.5	244.1	198.0	206.2	208.9	200.7	176.3	160.0
85°	314.7	271.3	181.7	146.5	111.2	70.5	67.8	81.4	76.0	54.3	59.7
87.5°	62.4	76.0	48.8	21.7	10.9	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)