

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: P451776

Luminaire Tested: **GALN-SA2C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11450 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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



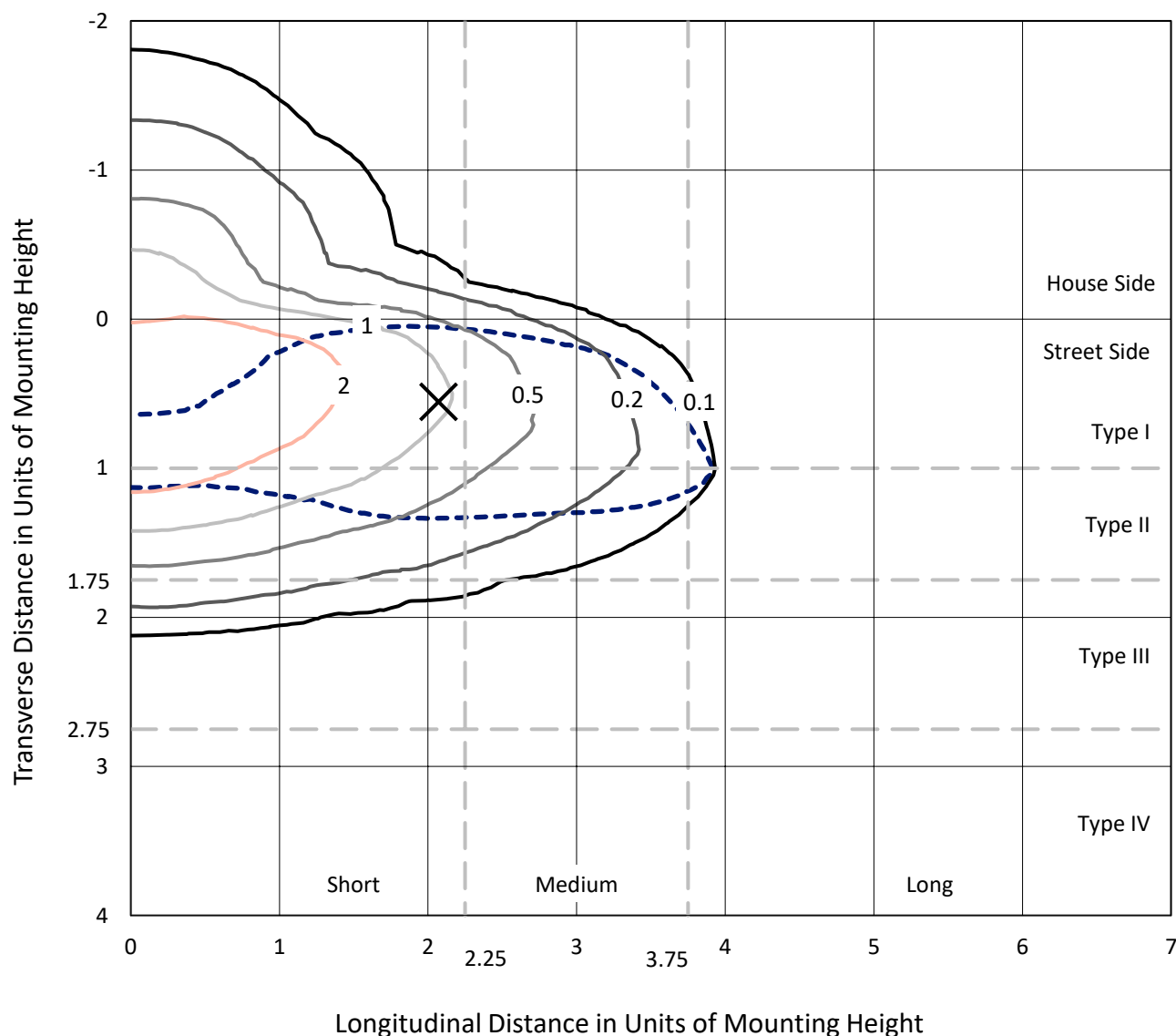
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

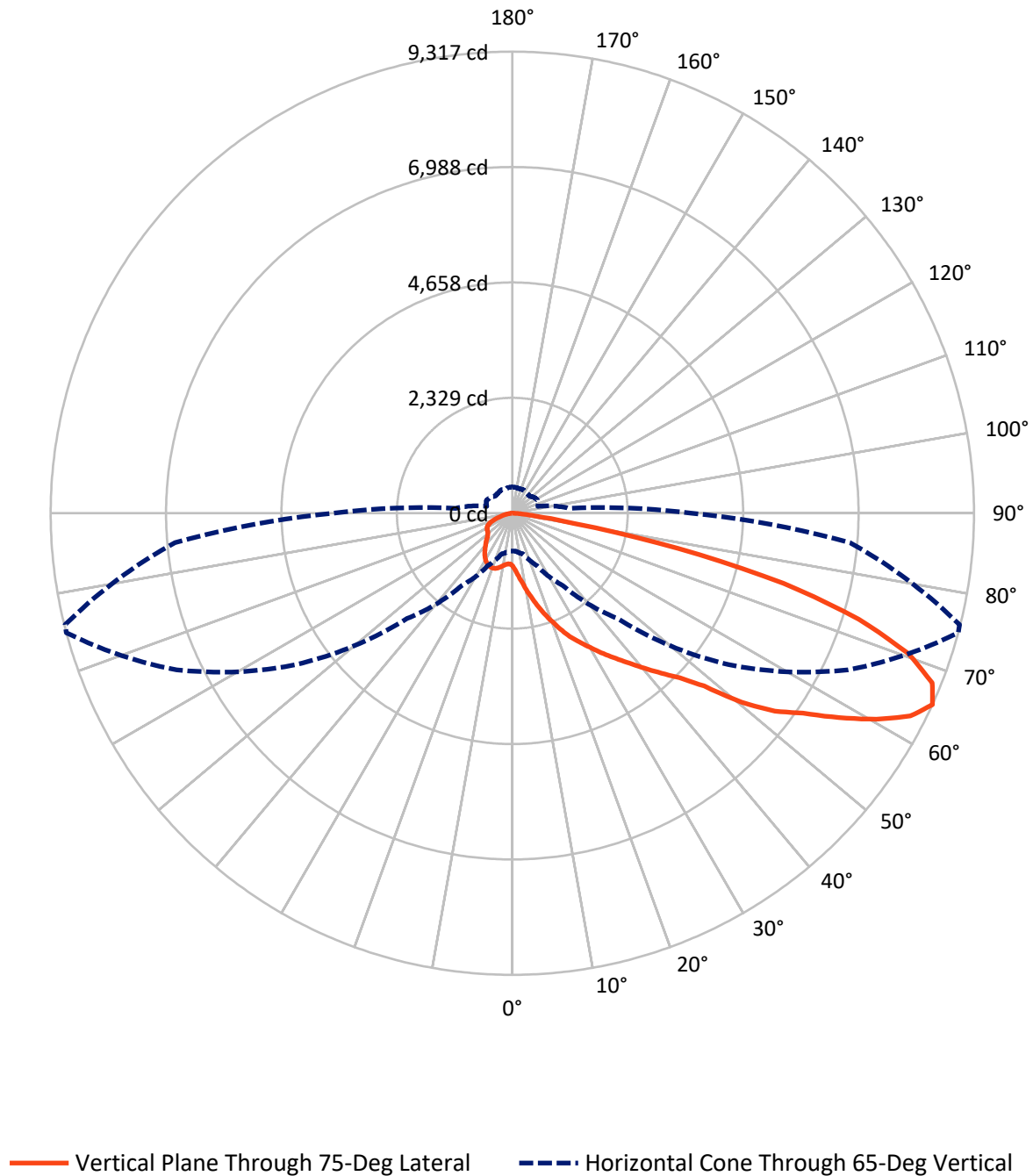


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.9	0.0	1924.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	9525.1	0.0	9525.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	11450.0	0.0	11450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	1.1
10°-20°	506.3	4.4
20°-30°	977.9	8.5
30°-40°	1588.5	13.9
40°-50°	2185.1	19.1
50°-60°	2579.9	22.5
60°-70°	2260.4	19.7
70°-80°	1079.1	9.4
80°-90°	143.6	1.3
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°	11450.0	100.0
0°-180°	11450.0	100.0

Coefficient of Utilization



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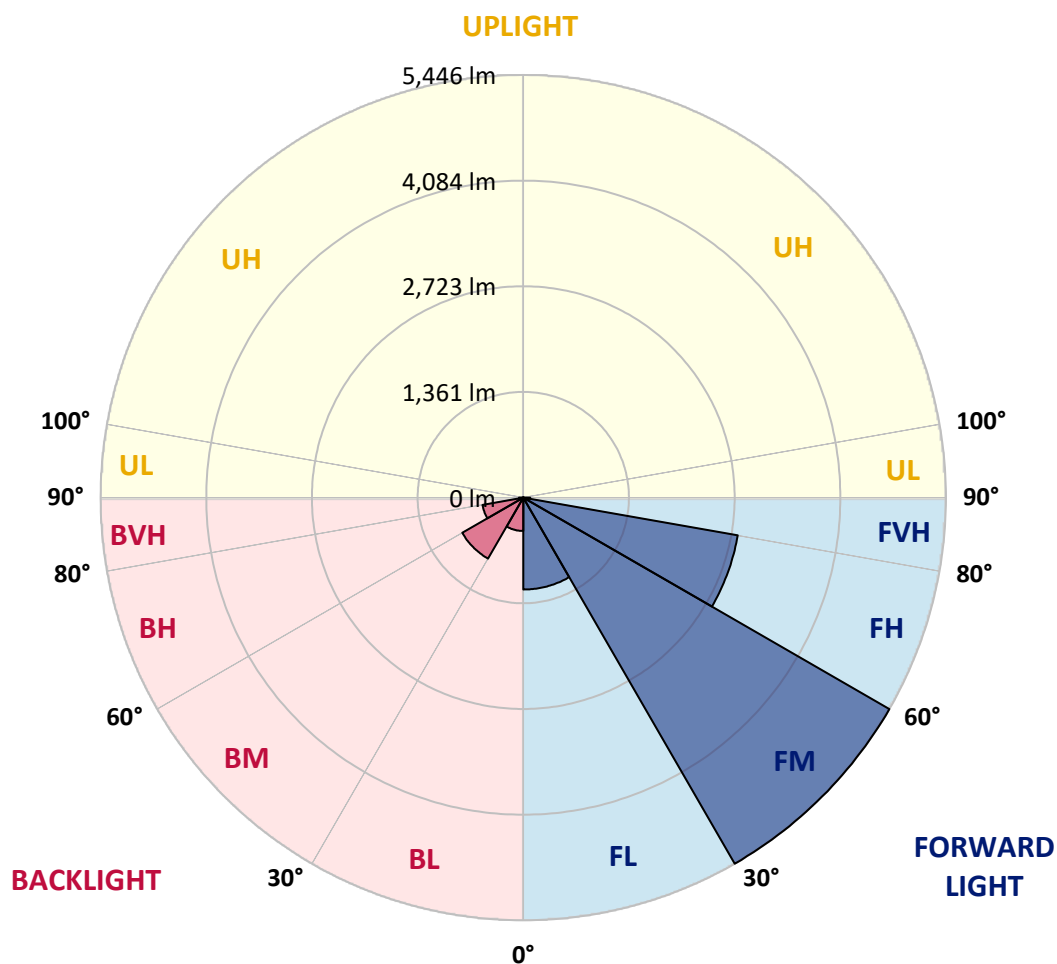
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.7	10.3			
FM	(30°-60°)	5445.9	47.6			
FH	(60°-80°)	2805.8	24.5			G2/5000
FVH	(80°-90°)	89.7	0.8			G1/100
BL	(0°-30°)	429.7	3.8	B1/500		
BM	(30°-60°)	907.6	7.9	B1/1000		
BH	(60°-80°)	533.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	53.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1413.5	1404.2	1394.2	1366.9	1337.7	1304.8	1257.6	1212.3	1152.0	1150.2	1105.5
5°	1805.4	1799.2	1755.1	1729.6	1661.9	1571.9	1495.5	1376.9	1266.9	1253.9	1166.9
7.5°	2165.6	2141.4	2124.6	2078.6	2011.6	1896.0	1748.2	1588.0	1404.2	1386.8	1242.7
10°	2437.0	2434.5	2425.8	2386.1	2335.7	2220.9	2056.9	1827.1	1578.1	1543.9	1334.6
12.5°	2640.1	2641.9	2640.7	2640.1	2604.0	2506.5	2328.9	2086.7	1753.8	1729.6	1440.8
15°	2773.6	2792.2	2799.7	2830.7	2833.8	2768.6	2615.8	2337.6	1951.9	1915.9	1555.1
17.5°	2861.8	2871.1	2905.9	2958.7	3001.5	2989.7	2853.7	2569.9	2154.4	2094.2	1673.7
20°	2946.2	2962.4	2989.1	3061.1	3136.9	3171.7	3076.0	2807.7	2355.0	2316.5	1804.8
22.5°	3122.0	3145.0	3154.3	3190.9	3255.5	3317.0	3273.5	3035.7	2574.9	2522.7	1943.9
25°	3419.5	3443.7	3417.6	3408.9	3430.0	3460.5	3451.1	3250.5	2782.3	2707.8	2075.5
27.5°	3807.0	3810.1	3759.2	3710.7	3658.6	3643.0	3614.5	3441.2	2962.4	2900.3	2207.8
30°	4223.1	4208.2	4123.7	4036.2	3948.0	3861.0	3779.1	3625.0	3163.0	3091.6	2337.6
32.5°	4609.4	4601.3	4507.5	4371.5	4222.5	4140.5	3974.7	3810.7	3377.9	3308.9	2471.1
35°	4898.8	4910.6	4807.5	4659.1	4496.4	4423.7	4214.4	4005.7	3600.2	3525.0	2616.5
37.5°	5104.4	5098.2	5006.9	4878.3	4735.5	4672.1	4494.5	4218.8	3839.3	3767.3	2775.4
40°	5177.6	5173.9	5106.2	5012.5	4921.8	4899.4	4787.6	4448.5	4113.2	4028.7	2966.7
42.5°	5131.1	5139.1	5094.4	5069.0	5052.2	5068.3	5078.9	4749.8	4411.9	4334.3	3174.2
45°	4988.2	4983.9	4977.7	5019.3	5113.7	5219.9	5367.1	5034.2	4736.7	4674.6	3452.4
47.5°	4733.0	4764.0	4779.6	4894.5	5100.6	5352.2	5698.7	5415.5	5208.1	5154.1	3876.6
50°	4375.9	4400.7	4492.6	4697.0	5004.4	5401.8	6022.9	6039.0	5994.3	5893.1	4337.4
52.5°	3818.2	3856.7	4046.1	4420.6	4806.9	5381.4	6219.1	6573.8	6632.8	6557.0	4791.4
55°	3194.0	3248.1	3448.0	3939.3	4534.9	5269.6	6354.5	6883.7	7119.0	7048.9	5228.6
57.5°	2582.9	2640.1	2845.6	3321.3	4060.4	5022.4	6443.3	7229.0	7781.1	7689.8	5772.6
60°	1935.8	1995.4	2171.8	2661.8	3384.7	4539.2	6383.1	7528.3	8442.5	8403.4	6317.3
62.5°	1248.9	1314.8	1468.1	1873.7	2601.6	3879.0	6060.8	7693.5	9015.1	8967.9	6714.7
65°	760.8	768.2	852.7	1163.2	1780.5	3003.4	5323.6	7474.3	9316.9	9302.6	6835.8
67.5°	491.9	503.7	542.2	696.8	1067.6	2086.1	4256.6	6750.8	9140.5	9135.6	6585.6
70°	415.5	419.2	436.6	470.1	620.4	1265.1	2989.1	5597.5	8470.4	8470.4	5983.8
72.5°	371.4	376.4	382.6	393.1	442.8	716.7	1783.6	4357.2	7313.4	7361.9	5093.2
75°	337.2	336.0	339.7	341.6	377.6	468.3	922.3	3222.6	5657.7	5560.8	3688.4
77.5°	288.8	290.6	288.8	296.9	333.5	356.5	468.3	2162.5	3428.8	3303.3	1851.3
80°	237.2	240.3	243.4	248.4	285.1	270.8	281.3	985.6	1268.2	1241.5	572.0
82.5°	178.2	182.6	187.6	199.4	224.2	178.9	177.6	421.1	457.7	419.2	210.5
85°	72.0	85.1	128.6	140.4	141.0	98.1	109.3	175.8	186.9	182.6	82.6
87.5°	16.8	19.9	41.6	62.7	57.8	36.6	40.4	57.1	65.2	60.2	27.9
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°	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8	1063.8
2.5°	1085.0	1063.2	1026.0	997.4	976.9	958.9	947.7	940.9	938.4	937.8	938.4
5°	1121.6	1083.1	1024.1	986.8	966.3	954.5	947.7	947.1	947.7	948.3	946.5
7.5°	1171.9	1116.6	1039.6	1004.9	989.3	980.6	977.5	976.3	976.9	976.3	976.3
10°	1239.0	1163.2	1070.1	1034.0	1021.0	1011.1	1006.1	1003.0	1000.5	998.0	996.8
12.5°	1312.9	1214.8	1103.0	1068.2	1049.6	1034.0	1022.9	1014.8	1009.2	1003.6	1002.4
15°	1395.5	1269.4	1139.6	1091.2	1064.5	1041.5	1022.2	1009.2	999.3	991.2	990.6
17.5°	1474.4	1321.0	1164.5	1101.7	1062.6	1030.3	1004.9	986.8	974.4	963.9	962.6
20°	1558.8	1370.0	1175.6	1094.9	1044.0	1004.9	971.3	949.6	935.3	923.5	921.6
22.5°	1643.9	1411.6	1174.4	1073.2	1011.7	965.7	930.3	907.3	890.6	878.8	874.4
25°	1725.3	1445.2	1158.9	1038.4	967.0	919.1	883.1	862.0	847.1	832.8	832.8
27.5°	1798.5	1465.0	1129.7	996.2	921.0	870.7	842.1	822.9	809.2	799.9	794.3
30°	1870.6	1474.4	1089.9	942.7	872.6	829.7	806.7	795.6	783.1	772.6	771.3
32.5°	1935.2	1472.5	1040.2	890.6	826.6	796.2	786.9	778.2	765.1	750.2	746.5
35°	1997.9	1460.1	981.3	833.4	788.1	776.3	778.8	766.4	742.8	724.1	721.0
37.5°	2066.2	1437.7	916.7	786.9	755.8	767.0	773.2	745.9	707.4	678.2	671.3
40°	2145.1	1412.3	849.6	740.3	730.3	758.3	758.3	708.0	655.2	637.2	632.2
42.5°	2237.6	1391.1	793.7	701.2	709.2	737.2	734.1	657.7	635.9	626.6	624.1
45°	2384.2	1383.7	735.9	667.0	691.8	712.3	686.9	640.3	627.9	620.4	617.9
47.5°	2615.8	1392.4	685.0	641.5	672.0	687.5	634.1	628.5	619.8	609.2	608.0
50°	2830.7	1384.3	649.0	627.3	654.6	657.7	612.4	614.2	609.2	597.4	595.0
52.5°	3006.5	1358.8	626.0	619.8	639.7	605.5	591.9	598.7	596.8	581.9	579.4
55°	3199.6	1343.3	614.8	619.8	629.7	560.2	572.6	582.5	580.1	569.5	568.9
57.5°	3433.8	1346.4	606.8	621.7	619.8	537.2	553.4	565.2	564.5	561.4	561.4
60°	3673.5	1347.7	594.3	621.0	608.0	519.2	533.5	550.2	551.5	553.4	553.4
62.5°	3753.0	1293.6	570.1	609.9	581.9	501.8	514.8	537.8	536.6	541.6	542.2
65°	3604.5	1144.0	534.1	584.4	548.4	489.4	500.6	521.7	514.8	527.9	530.4
67.5°	3281.0	946.5	478.2	538.4	511.1	476.3	491.2	499.3	486.9	512.4	513.0
70°	2835.7	739.0	407.4	473.2	468.9	462.7	483.8	471.4	454.0	485.0	478.8
72.5°	2371.1	564.5	325.4	386.9	412.4	442.2	470.8	435.4	411.1	420.4	409.3
75°	1781.2	417.3	261.5	303.1	343.4	413.0	459.0	391.9	354.6	345.9	343.4
77.5°	908.0	272.6	195.6	226.7	257.7	373.2	442.8	341.0	293.8	280.1	273.9
80°	324.2	169.5	137.9	156.5	173.9	321.1	386.9	282.0	227.9	225.4	227.9
82.5°	150.3	109.3	92.5	102.5	103.1	214.3	295.0	210.5	173.3	263.3	222.3
85°	64.6	54.7	52.2	50.9	47.2	95.6	165.8	113.0	176.4	78.9	72.7
87.5°	19.3	21.7	19.3	14.3	10.6	10.6	16.8	6.2	4.3	3.1	3.1
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)