

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: P452708

Luminaire Tested: **GALN-SA3C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17067 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 160
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

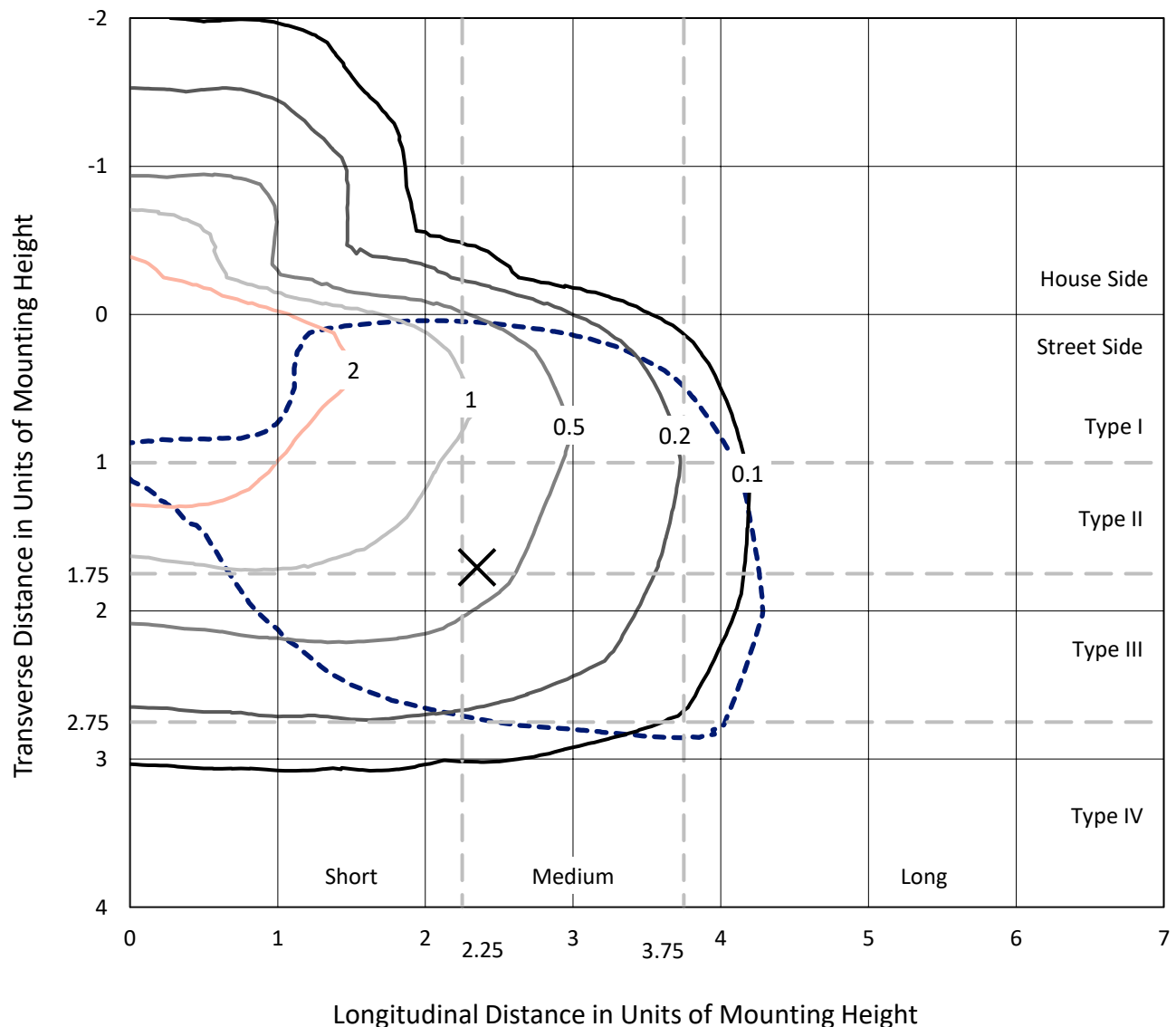


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

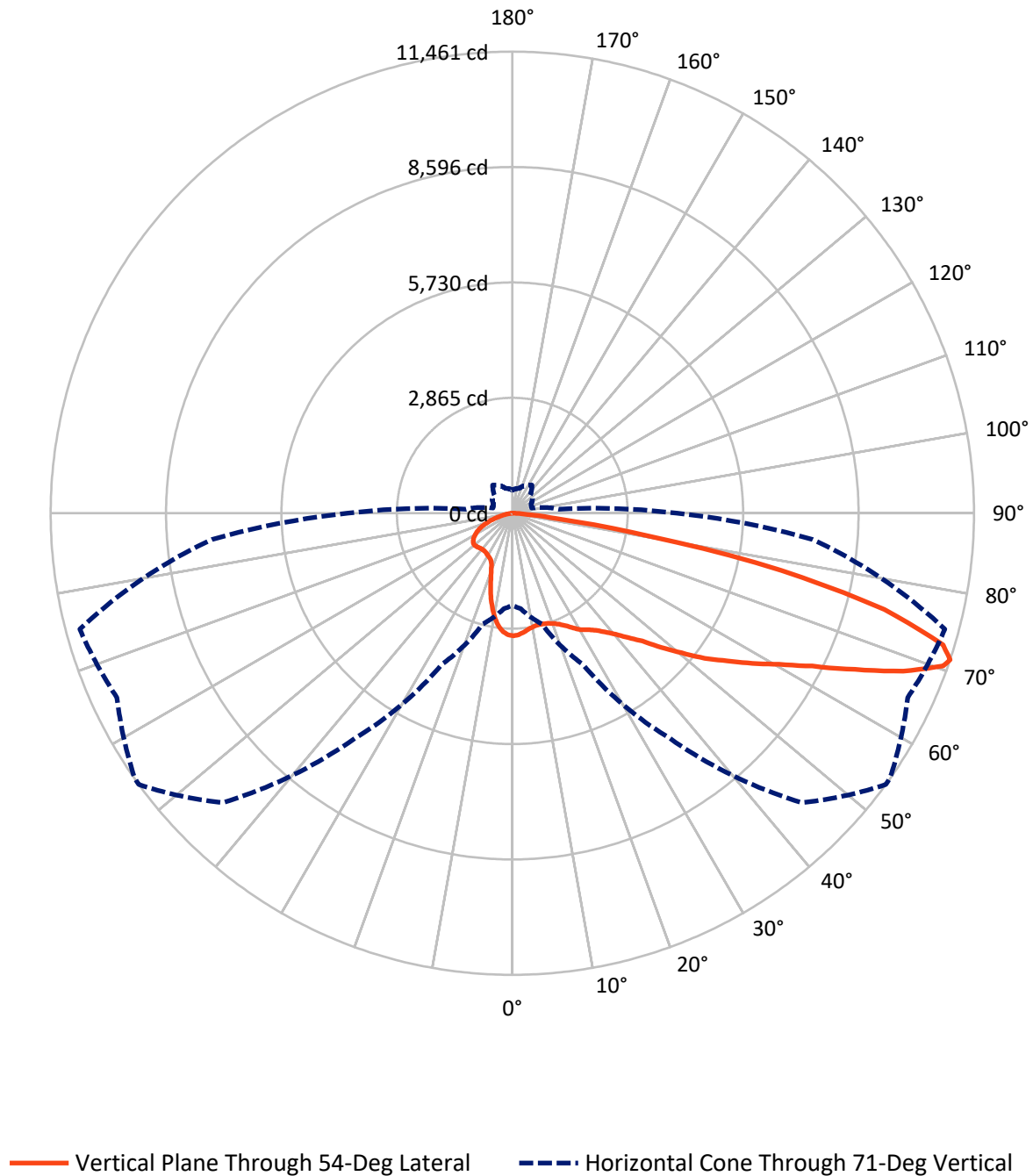


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3081.3	0.0	3081.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13985.7	0.0	13985.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	17067.0	0.0	17067.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	1.6
10°-20°	716.5	4.2
20°-30°	1193.0	7.0
30°-40°	1764.1	10.3
40°-50°	2484.8	14.6
50°-60°	3327.3	19.5
60°-70°	4193.7	24.6
70°-80°	2864.3	16.8
80°-90°	251.9	1.5
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°	17067.0	100.0
0°-180°	17067.0	100.0

Coefficient of Utilization



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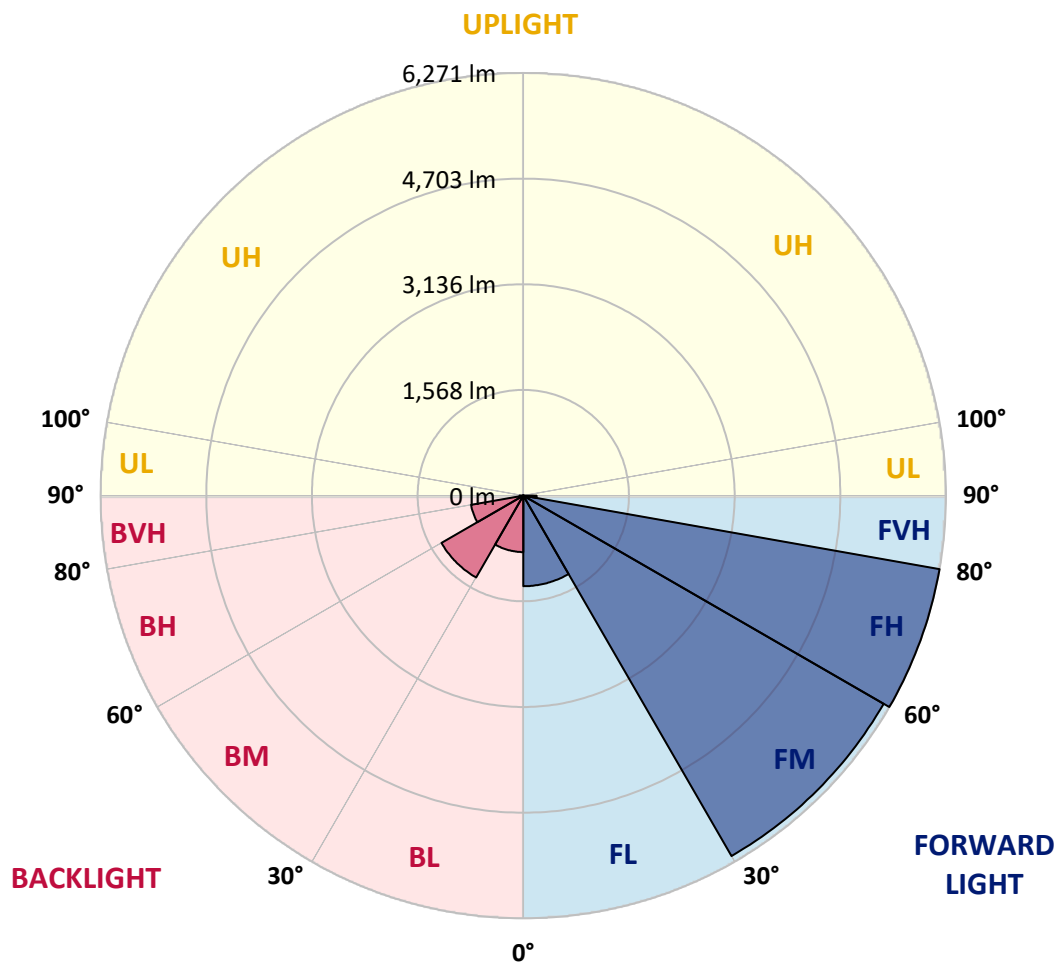
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1343.5	7.9			
FM	(30°-60°)	6174.2	36.2			
FH	(60°-80°)	6271.1	36.7			G3/7500
FVH	(80°-90°)	196.9	1.2			G2/225
BL	(0°-30°)	837.5	4.9	B2/1000		
BM	(30°-60°)	1401.9	8.2	B2/2500		
BH	(60°-80°)	787.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	55.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0
2.5°	2941.8	2955.6	2959.3	2968.5	2987.8	3003.5	3019.2	3017.3	3039.5	3048.7	3057.0
5°	2810.8	2814.5	2828.4	2846.8	2880.9	2924.2	2966.6	2967.6	3022.0	3065.3	3086.5
7.5°	2715.0	2727.0	2736.2	2755.5	2791.5	2838.5	2905.8	2911.3	3008.1	3093.9	3139.0
10°	2652.3	2666.1	2676.2	2700.2	2736.2	2788.7	2861.5	2871.7	2998.0	3139.0	3218.3
12.5°	2595.1	2609.0	2618.2	2649.5	2696.5	2761.1	2843.1	2855.1	3001.7	3191.6	3305.0
15°	2630.2	2641.2	2637.5	2646.7	2678.1	2751.8	2850.5	2862.5	3015.5	3242.3	3390.7
17.5°	2786.0	2795.2	2764.8	2729.7	2715.0	2769.4	2873.5	2886.4	3043.2	3294.8	3478.3
20°	3015.5	3040.4	2974.0	2895.7	2824.7	2832.0	2921.5	2935.3	3081.9	3347.4	3567.7
22.5°	3314.2	3332.6	3251.5	3122.4	2991.5	2924.2	2993.4	3001.7	3140.0	3415.6	3665.4
25°	3665.4	3676.5	3564.0	3398.1	3209.1	3081.9	3092.0	3106.8	3235.8	3493.0	3752.1
27.5°	4006.5	4041.6	3911.6	3708.8	3459.9	3247.8	3227.5	3236.8	3340.0	3536.4	3812.0
30°	4411.2	4408.5	4271.1	4036.0	3717.1	3428.5	3355.7	3353.8	3396.2	3557.6	3855.3
32.5°	4733.9	4771.7	4637.1	4380.8	4011.1	3615.7	3444.2	3440.5	3439.6	3594.5	3919.9
35°	5100.8	5106.4	4982.8	4724.7	4329.2	3850.7	3567.7	3549.3	3528.1	3673.7	4007.5
37.5°	5429.0	5454.8	5341.4	5052.0	4641.7	4095.0	3737.3	3725.4	3660.8	3811.1	4147.6
40°	5685.3	5704.7	5636.4	5360.8	4949.6	4358.7	3953.1	3930.9	3852.6	4036.0	4334.7
42.5°	5769.2	5808.8	5835.6	5700.1	5303.6	4671.2	4218.6	4190.9	4131.0	4377.1	4550.5
45°	5775.6	5838.3	5979.4	5985.8	5659.5	5045.5	4528.3	4509.0	4504.4	4814.1	4853.8
47.5°	5726.8	5790.4	6027.3	6155.5	5976.6	5423.5	4975.4	4945.0	4947.8	5354.3	5193.9
50°	5608.8	5684.4	5972.0	6264.2	6224.6	5816.2	5447.5	5437.3	5494.5	5971.1	5547.0
52.5°	5386.6	5477.9	5914.9	6332.5	6409.0	6154.5	5984.0	5955.4	6100.2	6640.4	5933.3
55°	4771.7	4909.1	5705.6	6370.3	6584.1	6478.1	6467.1	6518.7	6710.4	7370.5	6358.3
57.5°	4450.9	4554.1	5251.1	6376.7	6805.4	6854.3	7031.3	7044.2	7379.7	8145.8	6838.6
60°	4275.7	4367.0	5002.2	6334.3	7114.2	7319.8	7608.4	7654.5	8033.4	8985.7	7336.4
62.5°	4122.7	4201.1	4852.8	6187.7	7462.7	8010.3	8356.0	8378.1	8775.5	9913.1	7827.8
65°	3762.2	3851.7	4552.3	6041.2	7763.2	8873.2	9348.0	9322.2	9565.5	10713.3	8135.7
67.5°	3276.4	3389.8	3990.9	5535.0	7911.7	9816.3	10465.3	10433.0	10345.5	11237.8	8224.2
70°	2656.0	2716.8	3272.7	4660.2	7318.9	10311.3	11347.6	11313.4	10828.5	11307.0	7805.6
71°	2285.4	2380.3	2849.6	4139.3	6825.7	10160.2	11460.9	11451.7	10829.5	11116.2	7490.4
72.5°	1783.9	1841.9	2256.8	3207.3	5801.5	9301.0	11180.7	11215.7	10594.4	10586.1	6840.4
75°	1128.4	1154.2	1416.0	1888.0	3183.3	6586.9	9544.3	9639.3	9407.0	8664.9	5087.0
77.5°	655.5	688.7	848.1	1112.7	1375.5	3575.1	6829.4	6932.6	6536.2	4770.8	2082.6
80°	381.7	418.5	558.7	646.2	631.5	1326.6	3477.4	3653.5	2830.2	1204.9	584.5
82.5°	212.0	236.9	392.7	393.6	336.5	433.3	1094.3	1145.0	807.6	485.8	238.8
85°	154.0	174.2	253.5	229.6	161.3	186.2	380.7	399.2	326.3	204.7	77.4
87.5°	54.4	77.4	139.2	110.6	44.3	38.7	109.7	89.4	83.0	57.2	17.5
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°	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0	3045.0
2.5°	3061.6	3063.4	3054.2	3037.6	3021.0	2999.8	2975.9	2957.4	2949.1	2948.2	2947.3
5°	3094.8	3099.4	3064.4	3012.7	2955.6	2885.5	2825.6	2757.4	2739.9	2712.2	2720.5
7.5°	3148.3	3145.5	3076.3	2966.6	2833.0	2684.5	2559.2	2486.3	2410.7	2389.5	2390.5
10°	3224.8	3207.3	3076.3	2872.6	2649.5	2429.2	2254.0	2143.4	2083.5	2033.7	2015.3
12.5°	3305.9	3261.6	3046.8	2740.8	2413.5	2143.4	1955.3	1806.0	1767.3	1726.7	1727.6
15°	3383.3	3309.6	2988.8	2555.5	2159.1	1838.3	1655.7	1566.3	1554.3	1558.9	1558.0
17.5°	3453.4	3343.7	2900.3	2349.0	1862.2	1576.4	1479.6	1486.1	1518.4	1541.4	1544.2
20°	3524.4	3364.0	2768.4	2072.4	1582.0	1417.9	1421.6	1472.3	1521.1	1552.5	1557.1
22.5°	3591.7	3373.2	2613.6	1805.1	1379.1	1350.6	1405.0	1459.4	1507.3	1537.7	1542.3
25°	3635.9	3352.0	2394.2	1525.7	1279.6	1326.6	1383.8	1429.9	1470.4	1501.8	1509.1
27.5°	3647.9	3283.8	2122.2	1299.9	1233.5	1303.6	1356.1	1390.2	1421.6	1451.1	1456.6
30°	3641.5	3183.3	1823.5	1167.1	1206.8	1276.8	1317.4	1342.3	1380.1	1403.1	1407.7
32.5°	3631.3	3066.2	1511.9	1096.1	1184.6	1251.9	1275.9	1298.0	1297.1	1287.9	1294.3
35°	3635.0	2926.1	1259.3	1053.7	1165.3	1233.5	1253.8	1226.1	1146.8	1143.1	1139.5
37.5°	3654.4	2787.8	1075.8	1024.2	1155.1	1230.7	1241.8	1114.6	1044.5	1012.2	1003.9
40°	3704.2	2626.5	955.1	1002.1	1154.2	1251.9	1187.4	1058.3	923.7	861.0	856.4
42.5°	3770.5	2467.9	881.3	988.3	1165.3	1284.2	1165.3	979.0	832.5	795.6	790.1
45°	3869.2	2286.3	840.8	981.8	1181.9	1296.2	1157.9	921.0	795.6	766.1	766.1
47.5°	3980.7	2113.0	818.6	977.2	1203.1	1287.9	1092.4	902.5	778.1	781.8	799.3
50°	4091.4	1962.7	802.0	967.1	1221.5	1283.3	1065.7	901.6	782.7	829.7	861.0
52.5°	4219.5	1856.7	781.8	950.5	1221.5	1253.8	1057.4	920.0	795.6	809.4	823.2
55°	4374.4	1823.5	756.0	914.5	1199.4	1180.0	1052.8	946.8	804.8	772.5	778.1
57.5°	4579.0	1877.0	731.1	869.3	1148.7	1103.5	1051.0	954.2	783.6	756.9	751.3
60°	4816.9	1983.0	723.7	823.2	1079.5	1038.0	1039.9	933.0	754.1	726.4	731.1
62.5°	4983.7	2046.6	719.1	788.2	1003.9	966.1	1013.2	907.1	741.2	717.2	721.8
65°	4983.7	1969.2	676.7	734.7	906.2	879.5	980.9	874.9	724.6	696.9	692.3
67.5°	4794.8	1743.3	612.1	654.5	798.4	780.8	935.7	836.2	699.7	678.5	667.4
70°	4302.5	1322.0	531.0	560.5	661.9	677.6	877.6	783.6	658.2	632.4	615.8
71°	4085.8	1151.4	496.9	512.6	609.4	632.4	850.0	761.5	639.8	602.9	573.4
72.5°	3668.2	969.8	445.3	451.7	520.9	562.4	791.9	719.1	604.8	552.2	519.0
75°	2786.9	708.0	358.6	354.9	385.4	446.2	670.2	640.7	530.1	459.1	439.7
77.5°	1204.0	385.4	268.3	271.0	261.8	338.3	527.3	550.4	454.5	373.4	355.8
80°	365.1	222.2	183.5	187.1	175.2	226.8	371.5	431.4	365.1	290.4	266.4
82.5°	187.1	132.8	125.4	123.5	111.5	128.1	224.9	295.0	260.9	181.6	160.4
85°	81.1	71.0	61.8	59.9	52.5	46.1	80.2	147.5	138.3	101.4	96.8
87.5°	20.3	18.4	12.0	11.1	6.5	0.9	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)