

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: P456654

Luminaire Tested: **GALN-SA7D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42723 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 433
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

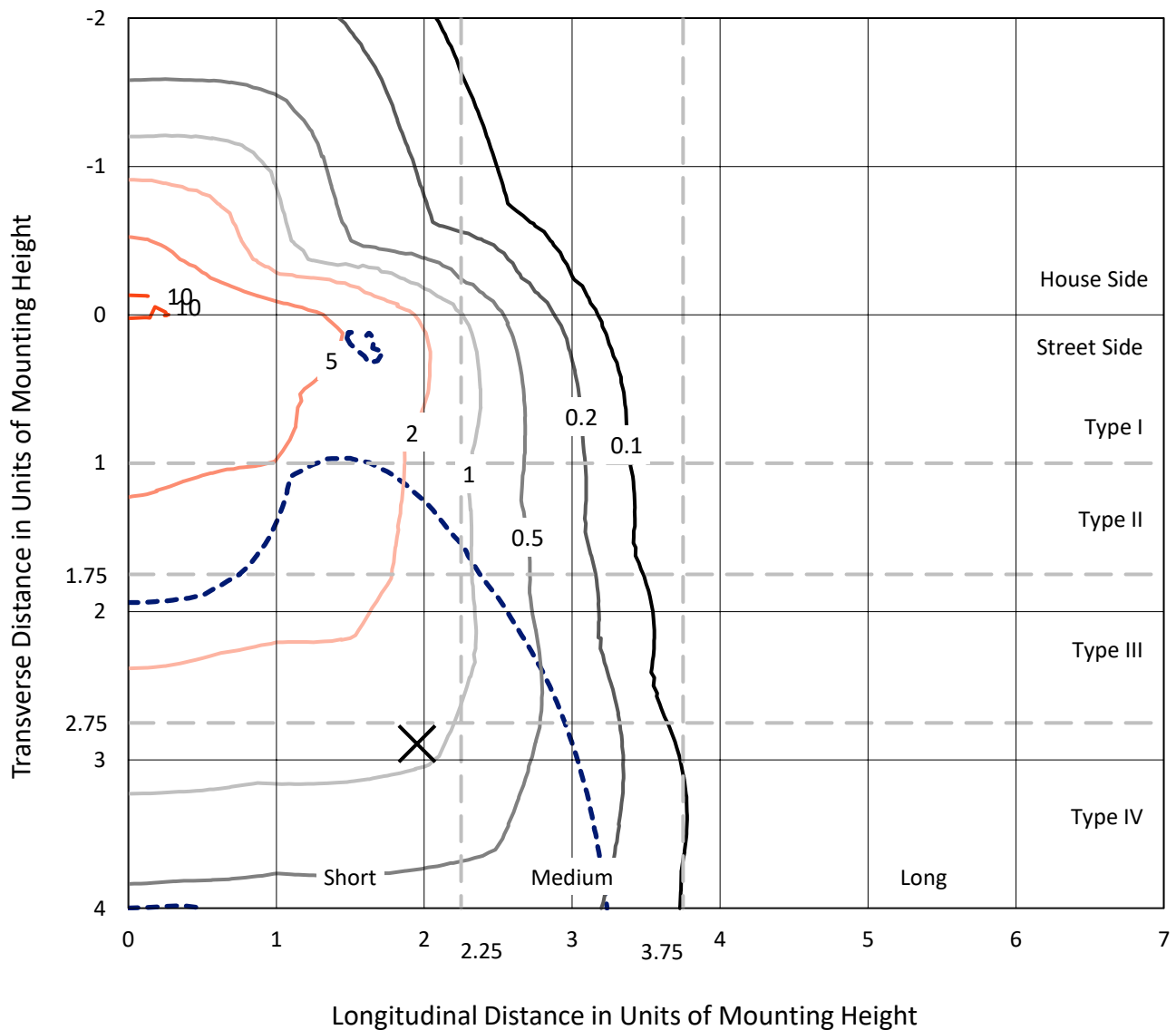


REPORT NUMBER: P456654

CATALOG NUMBER: GALN-SA7D-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

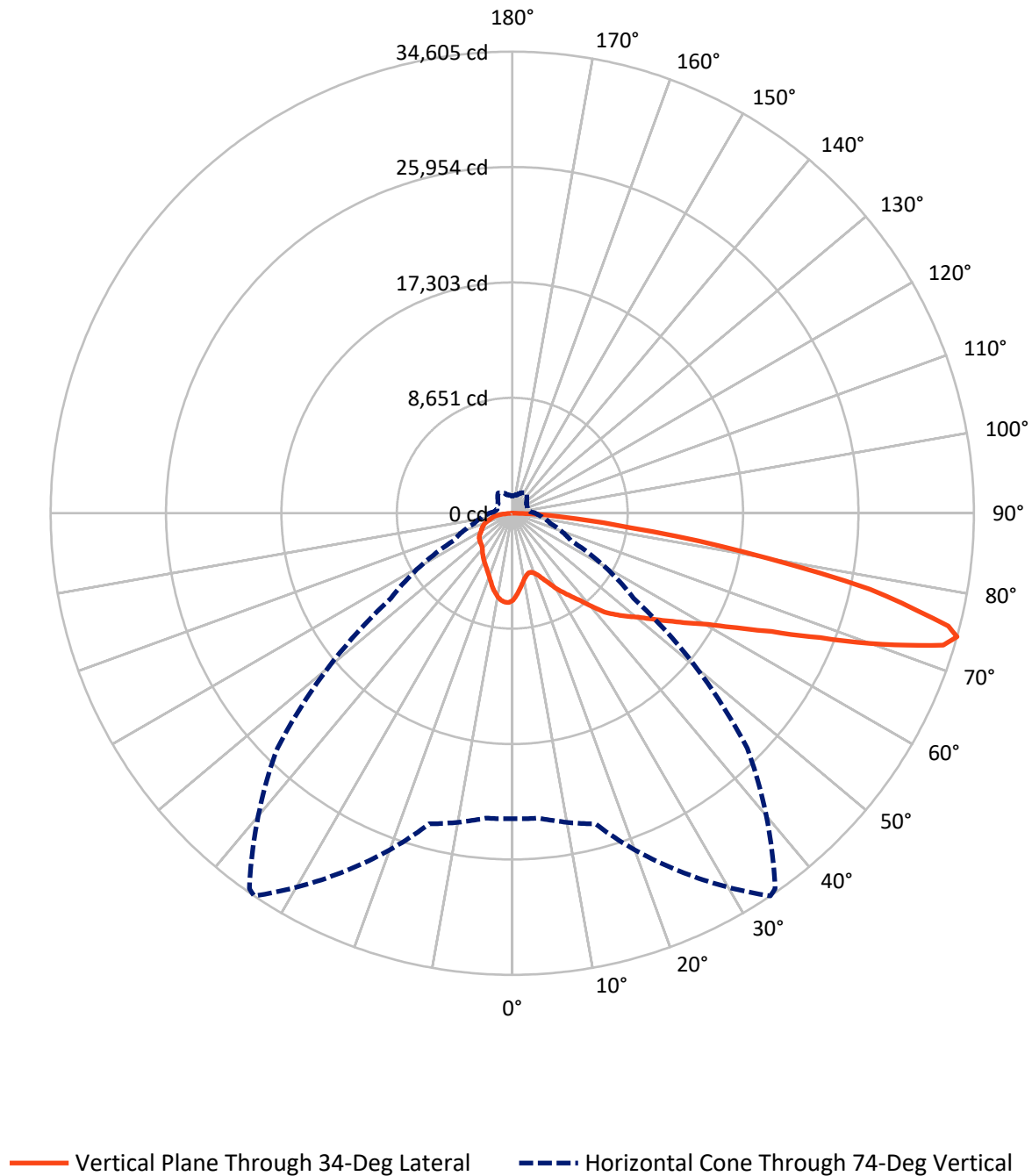


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type IV - Short - N/A

REPORT NUMBER: P456654

CATALOG NUMBER: GALN-SA7D-830-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9091.8	0.0	9091.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	33631.3	0.0	33631.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	42723.0	0.0	42723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.2	1.4
10°-20°	1624.0	3.8
20°-30°	2677.5	6.3
30°-40°	4010.6	9.4
40°-50°	5830.3	13.6
50°-60°	8143.5	19.1
60°-70°	10195.2	23.9
70°-80°	8430.6	19.7
80°-90°	1218.2	2.9
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°	42723.0	100.0
0°-180°	42723.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456654

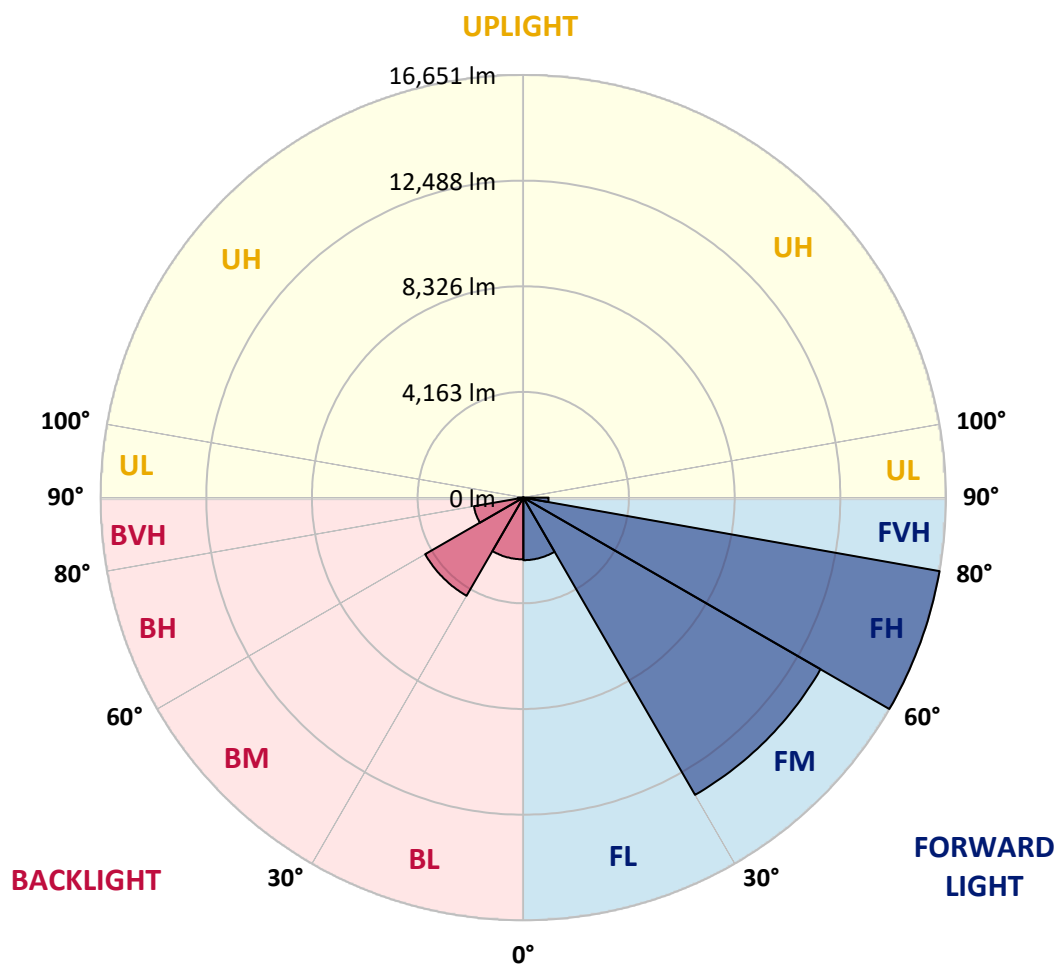
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2462.8	5.8			
FM	(30°-60°)	13519.3	31.6			
FH	(60°-80°)	16651.2	39.0			G5
FVH	(80°-90°)	998.0	2.3			G5
BL	(0°-30°)	2431.9	5.7	B3/2500		
BM	(30°-60°)	4465.0	10.5	B3/5000		
BH	(60°-80°)	1974.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	220.2	0.5			G2/225
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





REPORT NUMBER: P456654

CATALOG NUMBER: GALN-SA7D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0
2.5°	6028.3	6059.1	6075.6	6134.8	6149.0	6167.9	6217.6	6283.9	6369.1	6444.9	6511.1
5°	5526.5	5573.9	5602.3	5654.3	5756.1	5765.6	5898.1	6049.6	6222.4	6383.3	6515.9
7.5°	5050.8	5102.9	5126.5	5221.2	5356.1	5377.4	5571.5	5810.5	6099.3	6343.1	6546.6
10°	4693.4	4719.4	4771.5	4842.5	5003.5	5017.7	5270.9	5590.4	5964.4	6324.1	6598.7
12.5°	4499.3	4513.5	4525.4	4601.1	4759.7	4781.0	5046.1	5408.2	5857.9	6338.3	6683.9
15°	4527.7	4532.5	4480.4	4494.6	4622.4	4653.2	4915.9	5287.5	5791.6	6373.8	6811.7
17.5°	4766.8	4750.2	4622.4	4556.1	4646.1	4660.3	4889.9	5240.1	5760.8	6440.1	6944.3
20°	5143.1	5119.4	4899.3	4752.6	4804.6	4816.5	4975.1	5275.6	5791.6	6549.0	7150.2
22.5°	5611.7	5602.3	5268.5	5091.0	5088.7	5088.7	5171.5	5403.5	5883.9	6698.1	7365.5
25°	6267.3	6217.6	5782.1	5552.6	5488.7	5483.9	5474.5	5614.1	6002.3	6856.7	7621.2
27.5°	6939.5	6854.3	6466.2	6113.5	5976.2	5959.7	5898.1	5912.3	6153.7	7036.6	7912.3
30°	7543.1	7488.6	7124.1	6733.6	6570.3	6532.4	6362.0	6283.9	6407.0	7360.8	8376.2
32.5°	8004.6	7971.5	7687.4	7332.4	7091.0	7083.9	6835.4	6771.5	6802.2	7753.7	8906.3
35°	8378.5	8390.4	8246.0	7938.3	7661.4	7621.2	7455.5	7375.0	7285.1	8321.7	9573.8
37.5°	8889.8	8915.8	8906.3	8641.3	8302.8	8312.3	8274.4	8141.9	7902.8	8956.0	10314.6
40°	9453.1	9472.0	9469.6	9367.9	9190.4	9199.8	9185.6	9034.2	8676.8	9763.1	11138.3
42.5°	10231.8	10141.8	9907.5	10009.3	10113.4	10158.4	10255.4	10111.1	9621.1	10624.7	11912.2
45°	11102.8	10932.3	10402.2	10449.5	10835.3	10920.5	11455.4	11256.6	10646.0	11614.0	12823.4
47.5°	11651.9	11483.8	11036.5	11027.0	11538.2	11621.1	12567.8	12494.4	11578.5	12681.4	13935.8
50°	12141.8	12118.1	11614.0	11734.7	12234.1	12357.2	13779.6	13711.0	12508.6	13940.6	15147.7
52.5°	12868.4	12676.7	12274.3	12522.8	13183.2	13344.1	14982.0	14780.8	13363.1	15053.0	16324.0
55°	13195.0	13150.1	13126.4	13341.8	14248.3	14364.2	16151.2	15689.7	14092.0	15995.0	17218.6
57.5°	14068.4	13985.5	14219.9	14366.6	15502.7	15680.2	17372.5	16638.7	14731.1	16742.9	17654.1
60°	15199.7	15154.8	15370.1	15635.2	16903.8	17173.6	18764.2	17448.2	15244.7	17119.2	17415.1
62.5°	16889.6	16884.9	16844.7	17412.7	18889.6	19138.1	20361.8	18236.4	15325.2	16837.6	16179.6
65°	19313.3	19228.0	18877.8	19497.9	21360.6	21651.7	22025.6	18676.6	14840.0	15391.4	13623.4
67.5°	21848.1	21843.4	21559.4	22364.1	24908.4	25209.0	24106.1	18579.5	13493.2	12468.4	9675.6
70°	23949.9	23848.1	24210.2	26354.5	29440.9	29788.8	25926.2	17436.4	10747.7	8234.2	5749.0
72.5°	24454.0	24458.7	25211.4	29431.4	33793.5	33847.9	26581.8	14132.3	7192.8	4541.9	2875.7
74°	22901.4	22941.6	24108.4	29585.3	34605.3	34359.1	24906.1	11107.5	4863.8	2965.6	2073.3
75°	20903.8	20650.5	22338.1	28560.4	33762.7	33497.6	22944.0	8913.4	3711.2	2369.2	1815.4
77.5°	11176.1	11434.1	14037.6	21313.2	27429.1	27123.8	15557.1	4274.5	2004.7	1649.7	1306.5
80°	3978.6	4388.1	6167.9	11152.5	17585.5	17680.1	7424.7	1959.7	1410.6	1216.5	923.1
82.5°	1623.6	1668.6	2648.5	4949.0	8930.0	9015.2	3031.9	1164.5	1008.3	837.9	551.5
85°	634.3	653.2	1171.6	2224.8	3810.6	4059.1	1048.5	615.4	620.1	480.5	281.7
87.5°	213.0	241.4	480.5	740.8	1294.7	1268.6	305.3	182.2	222.5	208.3	87.6
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: P456654

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0	6523.0
2.5°	6544.3	6589.2	6620.0	6653.1	6683.9	6693.4	6686.3	6707.6	6709.9	6712.3	6714.7
5°	6582.1	6643.7	6702.8	6736.0	6750.2	6738.3	6698.1	6676.8	6657.9	6643.7	6648.4
7.5°	6634.2	6721.8	6776.2	6790.4	6752.5	6698.1	6598.7	6520.6	6470.9	6437.8	6435.4
10°	6714.7	6799.9	6844.8	6804.6	6700.5	6567.9	6411.7	6265.0	6153.7	6120.6	6118.2
12.5°	6816.4	6913.5	6911.1	6792.8	6610.5	6373.8	6120.6	5950.2	5798.7	5723.0	5753.7
15°	6949.0	7022.4	6953.7	6740.7	6452.0	6127.7	5815.3	5583.3	5412.9	5332.4	5337.2
17.5°	7102.8	7166.7	6984.5	6648.4	6229.5	5812.9	5450.8	5230.7	5095.8	5036.6	5031.9
20°	7294.5	7313.5	6984.5	6487.5	5943.1	5446.1	5100.5	4946.7	4870.9	4840.1	4849.6
22.5°	7500.5	7462.6	6946.6	6260.2	5566.8	5062.6	4830.7	4762.0	4724.2	4719.4	4724.2
25°	7732.4	7625.9	6868.5	5952.6	5173.9	4731.3	4596.4	4608.2	4615.3	4615.3	4631.9
27.5°	8016.4	7803.4	6738.3	5564.4	4714.7	4423.6	4385.7	4468.6	4506.4	4513.5	4525.4
30°	8390.4	7997.5	6523.0	5079.2	4324.2	4146.7	4212.9	4324.2	4366.8	4392.8	4388.1
32.5°	8835.3	8210.5	6231.8	4594.0	4009.4	3952.6	4033.1	4146.7	4194.0	4208.2	4189.3
35°	9358.4	8451.9	5848.4	4139.6	3734.8	3768.0	3862.7	3898.2	3940.8	3940.8	3950.2
37.5°	9921.7	8646.0	5379.8	3723.0	3521.8	3642.5	3711.2	3678.0	3659.1	3635.4	3647.3
40°	10494.5	8790.4	4771.5	3311.2	3308.8	3512.4	3531.3	3436.6	3360.9	3337.2	3325.4
42.5°	10993.9	8880.3	4222.4	2991.7	3107.6	3384.6	3398.8	3247.3	3126.6	3055.6	3031.9
45°	11583.2	8984.5	3685.1	2726.6	2920.7	3282.8	3318.3	3114.7	2937.2	2788.1	2750.2
47.5°	12390.3	9221.1	3261.5	2520.7	2785.7	3218.9	3268.6	3005.9	2771.5	2577.5	2546.7
50°	13301.5	9545.4	2932.5	2381.0	2681.6	3162.1	3223.6	2894.6	2617.7	2402.3	2378.7
52.5°	14137.0	9720.5	2648.5	2255.6	2579.8	3057.9	3164.4	2814.1	2466.2	2227.2	2205.9
55°	14593.8	9436.5	2369.2	2132.5	2440.2	2923.0	3081.6	2702.9	2319.5	2134.9	2104.1
57.5°	14655.4	8849.5	2115.9	2000.0	2293.4	2757.3	2927.8	2568.0	2224.8	2071.0	2044.9
60°	14179.6	7973.8	1919.5	1891.1	2144.3	2570.4	2755.0	2449.7	2127.8	2000.0	1973.9
62.5°	12996.2	7022.4	1782.2	1791.7	1992.9	2373.9	2627.2	2336.1	2035.5	1921.9	1898.2
65°	10960.7	5796.3	1649.7	1689.9	1858.0	2220.1	2511.2	2241.4	1943.2	1862.7	1841.4
67.5°	7614.1	4184.5	1540.8	1583.4	1730.1	2063.9	2376.3	2139.6	1839.0	1796.4	1763.3
70°	4215.3	2575.1	1413.0	1462.7	1597.6	1888.7	2224.8	1985.8	1687.5	1668.6	1621.3
72.5°	2215.3	1640.2	1268.6	1323.1	1417.7	1663.9	1992.9	1817.7	1538.4	1458.0	1396.4
74°	1730.1	1344.4	1171.6	1228.4	1292.3	1531.3	1855.6	1697.0	1431.9	1337.3	1289.9
75°	1507.7	1197.6	1088.7	1162.1	1218.9	1441.4	1749.1	1611.8	1372.8	1282.8	1240.2
77.5°	1065.1	897.0	889.9	977.5	1008.3	1263.9	1576.3	1467.4	1223.6	1129.0	1088.7
80°	747.9	672.2	705.3	759.7	802.4	1117.1	1462.7	1268.6	1003.5	892.3	878.1
82.5°	487.6	440.2	504.1	553.8	568.0	823.7	1181.0	963.3	731.3	594.1	551.5
85°	224.8	220.1	288.8	281.7	279.3	402.4	700.6	563.3	421.3	314.8	295.9
87.5°	56.8	54.4	71.0	59.2	71.0	61.5	63.9	16.6	2.4	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)