

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: P455707

Luminaire Tested: **GALN-SA6D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36387 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368
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

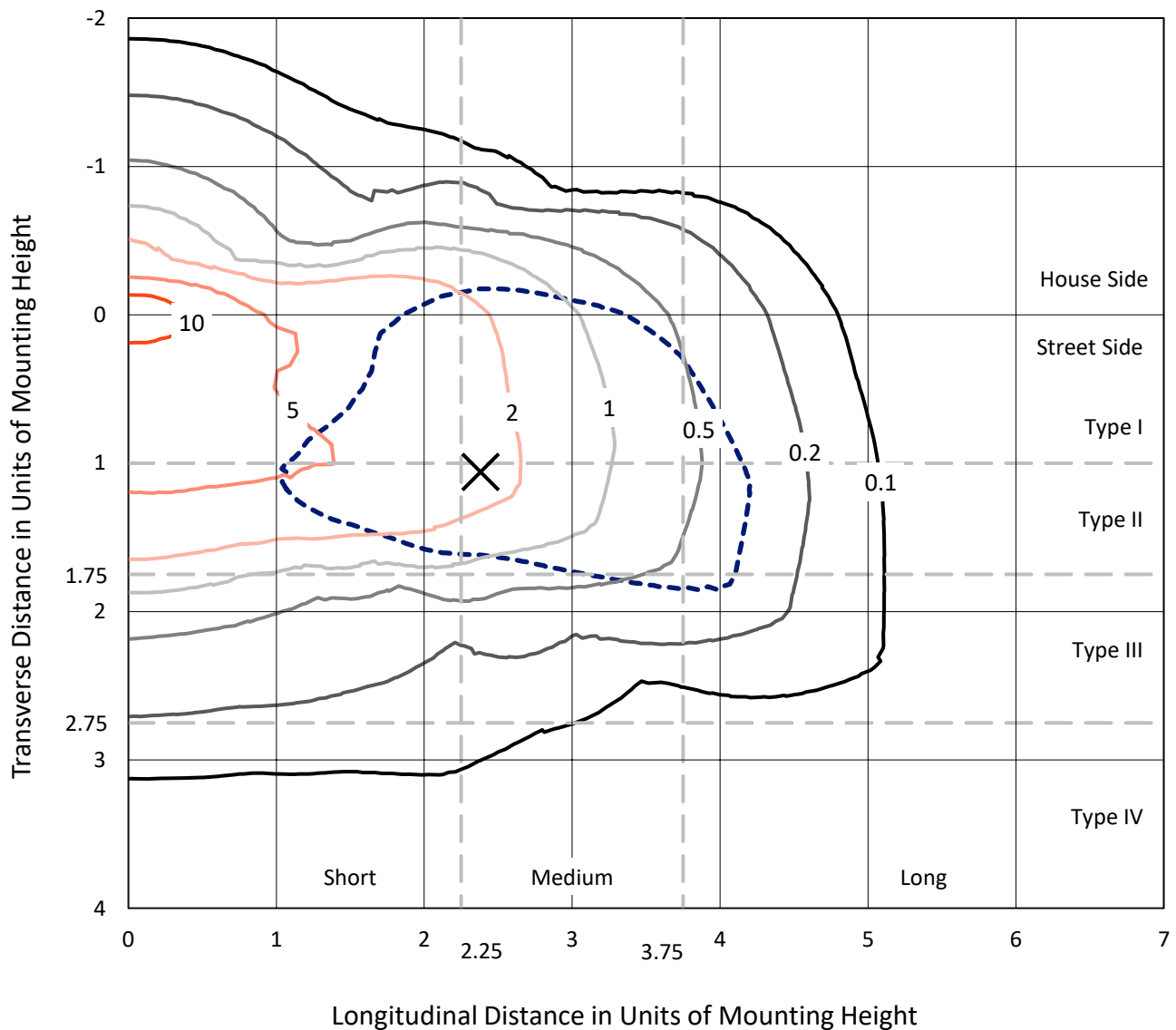


REPORT NUMBER: P455707

CATALOG NUMBER: GALN-SA6D-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

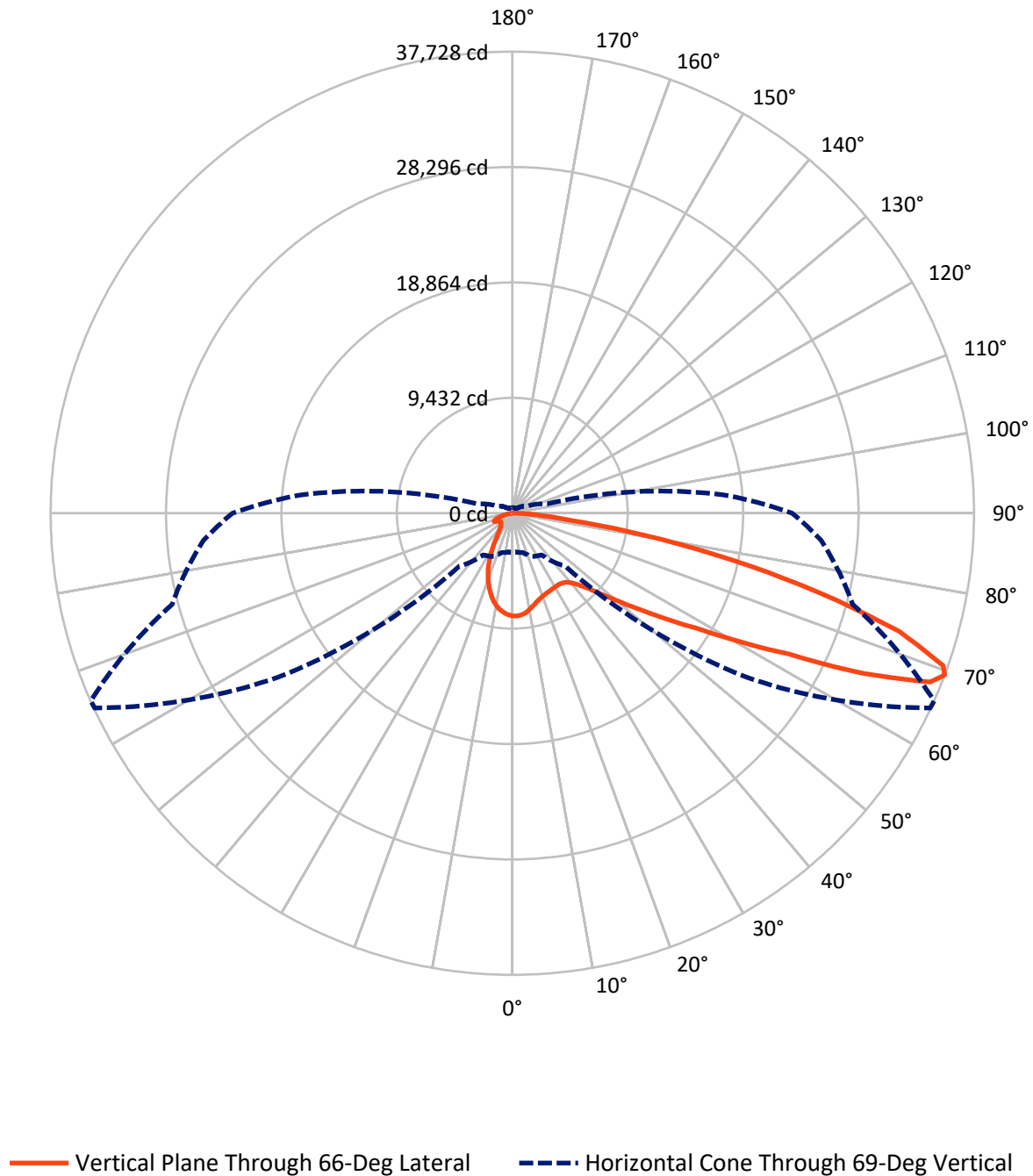


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P455707

CATALOG NUMBER: GALN-SA6D-830-U-SL2

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6843.0	0.0	6843.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29544.0	0.0	29544.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	36387.0	0.0	36387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.7	2.0
10°-20°	1730.8	4.8
20°-30°	2356.2	6.5
30°-40°	3166.2	8.7
40°-50°	4727.7	13.0
50°-60°	7520.2	20.7
60°-70°	9249.4	25.4
70°-80°	6018.1	16.5
80°-90°	888.7	2.4
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°	36387.0	100.0
0°-180°	36387.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455707

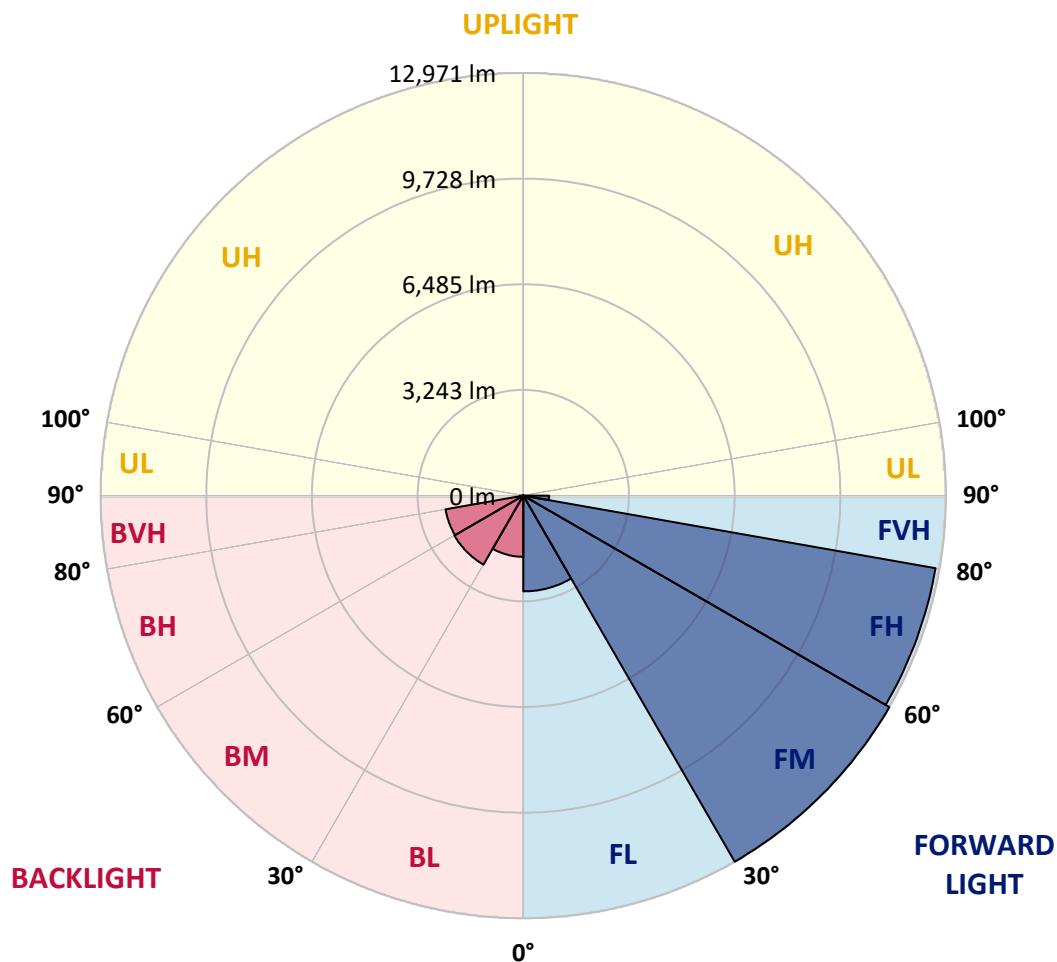
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2938.2	8.1			
FM	(30°-60°)	12970.9	35.6			
FH	(60°-80°)	12844.8	35.3			G5
FVH	(80°-90°)	790.1	2.2			G5
BL	(0°-30°)	1878.4	5.2	B3/2500		
BM	(30°-60°)	2443.3	6.7	B2/2500		
BH	(60°-80°)	2422.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	98.6	0.3			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 Medium





REPORT NUMBER: P455707

CATALOG NUMBER: GALN-SA6D-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8
2.5°	8108.6	8140.8	8177.1	8217.4	8294.0	8336.3	8366.5	8400.8	8404.8	8422.9	8408.8
5°	7510.1	7548.4	7602.8	7679.4	7794.2	7973.6	8158.9	8310.1	8328.2	8412.8	8437.0
7.5°	7010.4	7032.5	7076.9	7199.8	7363.0	7562.5	7832.5	8138.8	8183.1	8384.6	8455.2
10°	6603.3	6625.5	6677.9	6804.8	6966.0	7215.9	7512.1	7915.1	7951.4	8298.0	8459.2
12.5°	6299.1	6319.2	6375.6	6500.6	6685.9	6919.7	7246.1	7673.3	7725.7	8183.1	8420.9
15°	6067.3	6105.6	6152.0	6254.7	6450.2	6675.9	6992.2	7451.7	7494.0	8062.2	8394.7
17.5°	5968.6	5986.7	6019.0	6113.7	6256.7	6478.4	6796.8	7278.4	7328.7	7977.6	8388.7
20°	5972.6	5990.8	5996.8	6049.2	6152.0	6343.4	6657.7	7141.3	7201.8	7903.0	8398.7
22.5°	6109.6	6111.7	6089.5	6071.4	6111.7	6270.8	6559.0	7038.6	7109.1	7870.8	8406.8
25°	6321.2	6357.5	6325.3	6240.6	6166.1	6242.6	6520.7	6982.2	7048.7	7824.4	8396.7
27.5°	6663.8	6669.8	6643.6	6528.8	6335.3	6278.9	6504.6	6939.8	6996.3	7790.2	8346.3
30°	7123.2	7105.1	7080.9	6953.9	6649.7	6417.9	6538.8	6901.6	6960.0	7739.8	8285.9
32.5°	7588.7	7645.1	7622.9	7473.8	7078.9	6688.0	6649.7	6897.5	6945.9	7701.5	8219.4
35°	8082.4	8108.6	8213.4	8136.8	7731.8	7125.2	6857.2	6960.0	6998.3	7703.5	8173.1
37.5°	8469.3	8539.8	8785.6	8852.1	8471.3	7703.5	7193.7	7137.3	7153.4	7802.3	8191.2
40°	8936.8	9057.7	9374.0	9646.1	9396.2	8455.2	7766.0	7465.8	7485.9	8040.1	8310.1
42.5°	9529.2	9613.8	10039.0	10407.7	10367.4	9448.6	8459.2	8003.8	8013.9	8513.6	8642.6
45°	10222.4	10343.3	10820.8	11375.0	11469.7	10573.0	9460.7	8817.9	8811.8	9249.1	9263.2
47.5°	11109.0	11183.5	11657.1	12261.6	12644.5	11985.5	10675.7	9986.6	9922.1	10321.1	10206.2
50°	11925.1	12042.0	12400.6	13061.6	14014.7	13639.9	12273.7	11501.9	11350.8	11723.6	11530.1
52.5°	12267.6	12390.6	12692.8	13512.9	15189.5	15779.9	14302.8	13309.4	13057.5	13343.7	13273.2
55°	11673.2	11832.4	12114.5	13111.9	15705.3	18248.3	17039.3	15399.0	15215.7	15092.7	15112.9
57.5°	10075.3	10226.4	10607.2	11707.5	15088.7	20039.7	20946.5	18085.1	17692.2	17125.9	17222.7
60°	7669.3	7764.0	7961.5	9180.6	13261.1	20505.2	25383.6	21480.5	21230.6	19151.1	19219.6
62.5°	5446.7	5553.5	5690.5	6299.1	9708.5	19193.4	28857.6	26221.9	25329.2	21248.7	21182.2
65°	4423.0	4350.5	4515.7	4799.9	5696.6	14875.1	29639.4	32803.0	31573.9	24011.4	23088.5
67.5°	3637.2	3560.6	3723.8	4229.6	4332.4	8634.5	26822.4	37075.0	36829.1	27015.8	25024.9
69°	3220.1	3179.8	3322.8	3899.1	4159.1	6131.8	23366.5	37669.4	37727.8	28787.0	25323.2
70°	2901.7	2917.8	3056.8	3731.9	4080.5	5055.8	19971.2	36849.3	37345.0	29671.6	25000.8
72.5°	2136.0	2170.2	2363.7	3091.1	4005.9	4290.0	11884.8	32186.4	33063.0	29724.0	22870.8
75°	1493.2	1477.0	1648.3	2327.4	3784.3	4251.8	6980.1	24891.9	25885.4	25691.9	19217.6
77.5°	977.3	1003.5	1140.5	1644.3	3183.8	4219.5	4550.0	17659.9	18304.7	17182.4	11366.9
80°	689.1	687.1	763.7	1122.4	2361.6	4054.3	3725.8	11131.2	10967.9	6752.4	3371.2
82.5°	395.0	423.2	511.8	789.9	1579.8	3568.7	3427.6	5323.8	4860.3	1924.4	1138.5
85°	219.6	229.7	304.3	477.6	922.9	2688.1	2992.4	2422.1	2285.1	804.0	489.7
87.5°	70.5	76.6	126.9	241.8	419.1	1269.5	1694.7	1118.4	1031.7	290.2	197.5
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°	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8	8402.8
2.5°	8414.9	8439.0	8374.6	8312.1	8255.7	8177.1	8106.6	8048.1	8007.8	8001.8	7981.6
5°	8443.1	8445.1	8322.2	8156.9	7995.7	7818.4	7635.0	7504.1	7381.1	7312.6	7278.4
7.5°	8463.2	8445.1	8223.4	7955.4	7645.1	7322.7	7000.3	6742.4	6542.9	6464.3	6494.5
10°	8455.2	8398.7	8074.3	7645.1	7193.7	6712.1	6248.7	5886.0	5553.5	5382.2	5386.2
12.5°	8410.8	8318.1	7852.7	7296.5	6633.6	5988.7	5279.4	4789.8	4404.9	4177.2	4106.7
15°	8372.5	8211.3	7592.7	6823.0	5998.8	5077.9	4213.5	3609.0	3286.6	3107.2	3105.2
17.5°	8332.2	8108.6	7308.6	6321.2	5269.4	4084.5	3177.7	2716.3	2565.2	2583.3	2553.1
20°	8289.9	7987.7	7012.4	5763.1	4380.7	3046.8	2379.8	2192.4	2234.7	2317.3	2329.4
22.5°	8241.6	7858.7	6694.0	5148.5	3445.7	2293.1	1930.4	1902.2	2011.0	2140.0	2158.1
25°	8167.0	7697.5	6293.0	4505.7	2657.9	1847.8	1690.6	1710.8	1817.6	1926.4	1938.5
27.5°	8062.2	7498.0	5888.0	3703.7	1996.9	1585.8	1545.5	1571.7	1624.1	1690.6	1706.7
30°	7921.2	7272.3	5422.5	3010.5	1600.0	1454.9	1438.7	1452.9	1483.1	1511.3	1519.3
32.5°	7780.1	7054.7	4953.0	2305.2	1426.7	1368.2	1352.1	1352.1	1352.1	1356.1	1358.1
35°	7649.1	6849.2	4449.2	1795.4	1336.0	1299.7	1277.5	1253.4	1249.3	1235.2	1235.2
37.5°	7576.6	6661.8	3913.2	1503.2	1269.5	1243.3	1213.1	1172.8	1150.6	1152.6	1148.6
40°	7590.7	6538.8	3425.6	1338.0	1215.1	1186.9	1140.5	1094.2	1080.1	1080.1	1076.0
42.5°	7749.9	6498.5	2958.1	1251.3	1162.7	1130.4	1072.0	1029.7	1021.6	1019.6	1023.6
45°	8116.6	6597.3	2539.0	1194.9	1118.4	1070.0	1011.6	973.3	965.2	965.2	963.2
47.5°	8832.0	6917.7	2238.7	1158.7	1086.1	1023.6	963.2	924.9	910.8	906.8	906.8
50°	9944.3	7612.9	2015.1	1126.4	1045.8	981.3	918.9	874.5	852.4	850.4	848.3
52.5°	11489.8	8697.0	1928.4	1102.2	1001.5	937.0	868.5	826.2	798.0	791.9	787.9
55°	13297.3	10210.3	2047.3	1084.1	955.1	886.6	816.1	771.8	745.6	733.5	731.5
57.5°	15391.0	12027.8	2498.7	1059.9	912.8	832.2	763.7	719.4	691.2	677.1	673.0
60°	17271.0	13895.8	3286.6	1045.8	876.5	773.8	703.3	663.0	636.8	622.7	620.6
62.5°	19336.4	15677.1	4227.6	1084.1	860.4	717.4	646.8	610.6	588.4	574.3	574.3
65°	21542.9	17460.4	4850.2	1213.1	884.6	673.0	586.4	556.2	536.0	525.9	523.9
67.5°	23030.0	18077.0	3995.8	1346.1	945.1	624.7	527.9	503.8	491.7	481.6	481.6
69°	22868.8	17297.2	2948.0	1380.3	963.2	600.5	495.7	477.6	461.4	457.4	453.4
70°	22359.0	16408.6	2470.5	1358.1	949.1	578.3	475.6	453.4	439.3	435.3	433.2
72.5°	19914.8	14230.3	1839.7	1180.8	808.0	501.7	421.1	401.0	388.9	382.9	382.9
75°	16545.6	11630.9	1436.7	939.0	632.7	423.2	360.7	344.6	334.5	330.5	328.5
77.5°	9273.3	6494.5	1031.7	735.5	479.6	342.6	302.3	288.2	278.1	274.0	274.0
80°	2583.3	1855.9	606.5	485.6	326.4	259.9	239.8	229.7	215.6	205.5	211.6
82.5°	973.3	804.0	346.6	292.2	207.6	173.3	167.2	159.2	153.1	139.0	139.0
85°	473.5	390.9	221.7	155.2	114.9	90.7	86.6	82.6	78.6	68.5	70.5
87.5°	163.2	173.3	96.7	56.4	34.3	22.2	18.1	10.1	10.1	10.1	10.1
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)