

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: P458031

Luminaire Tested: **GALN-SA9B-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40124 lumens
Efficiency: N/A
Efficacy: 110.2 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): 364
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

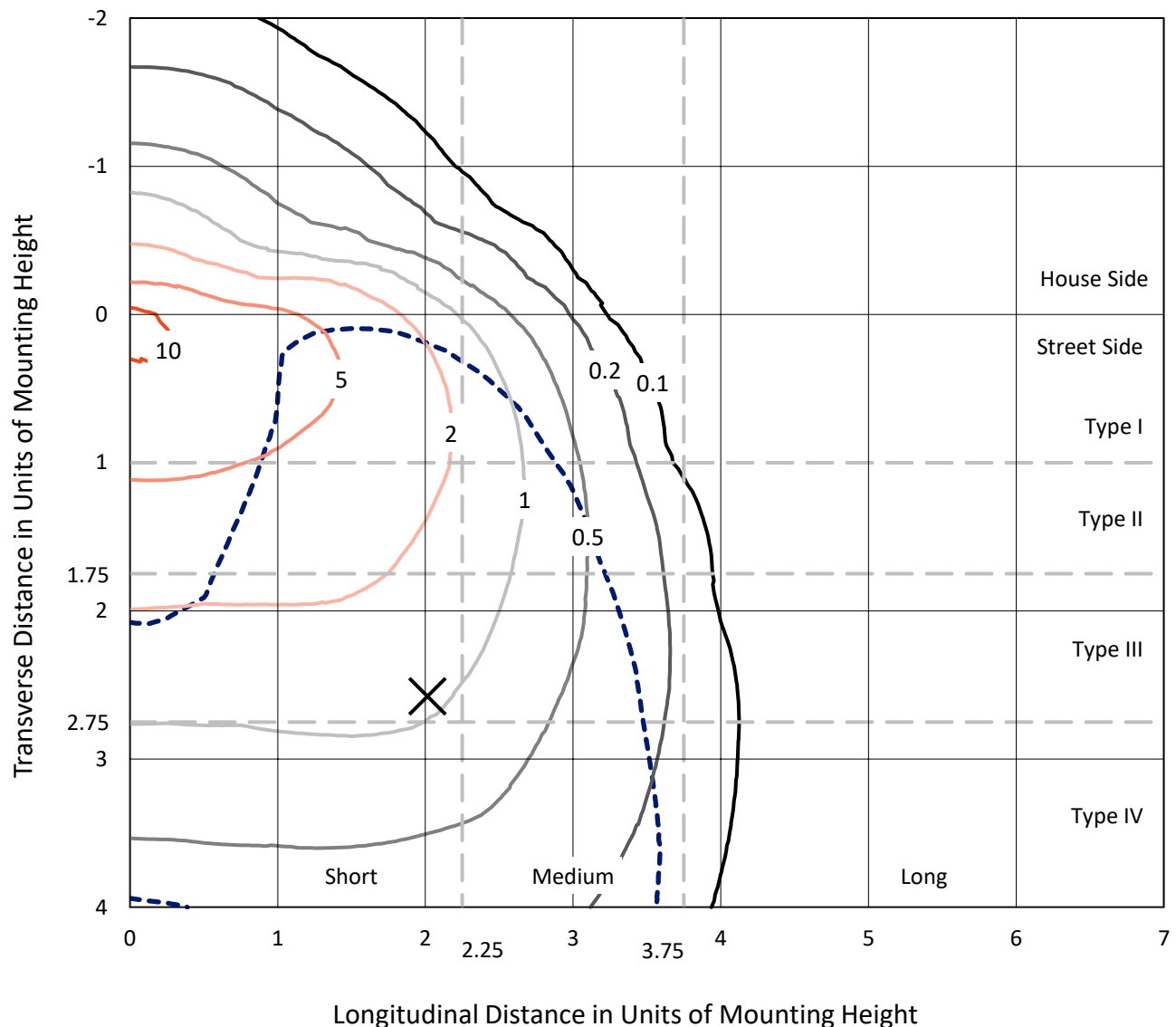


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Iso-Footcandle Lines of Horizontal Illumination

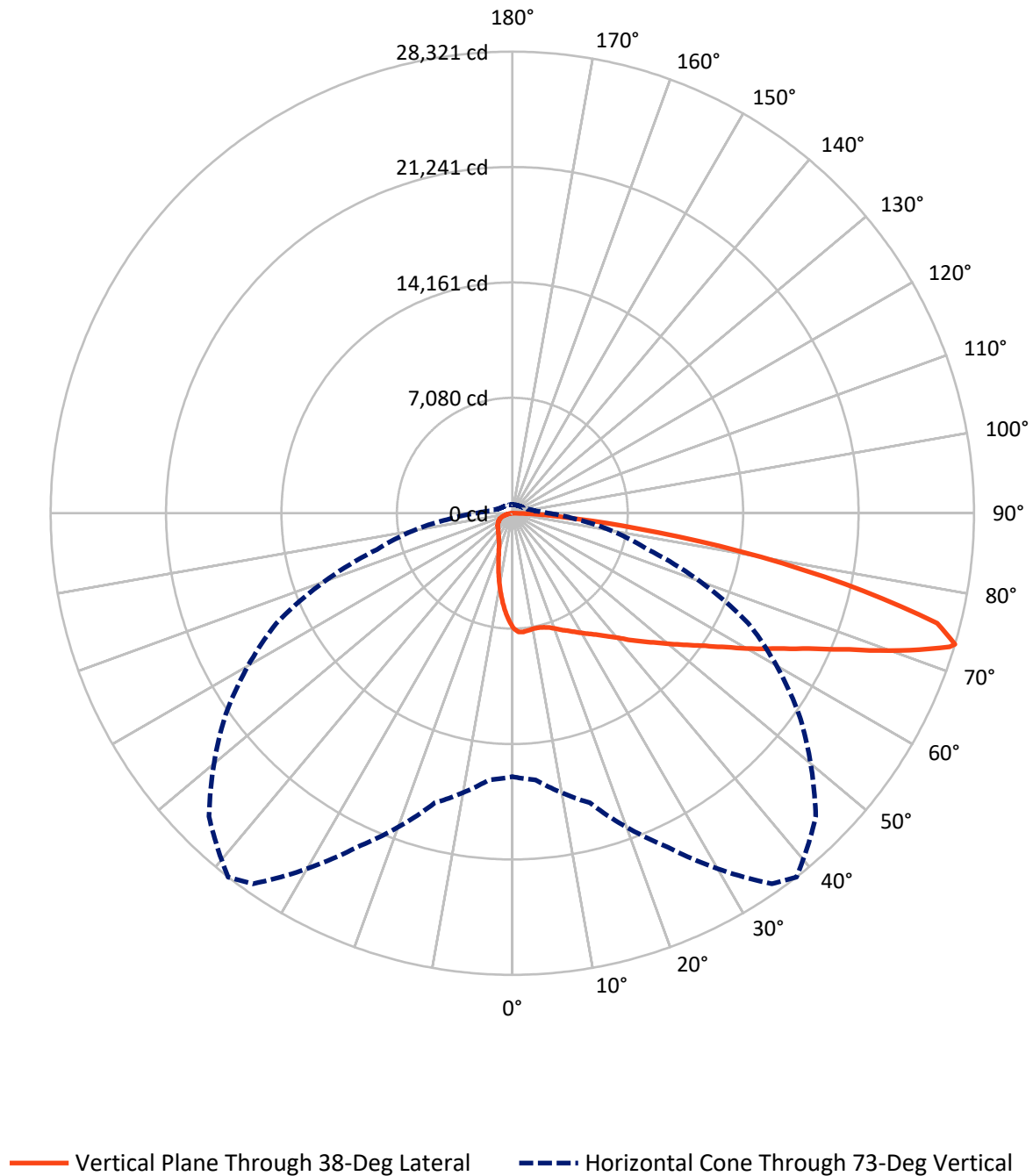
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5393.9	0.0	5393.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34730.1	0.0	34730.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	40124.0	0.0	40124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.3	1.5
10°-20°	1577.9	3.9
20°-30°	2457.0	6.1
30°-40°	3603.9	9.0
40°-50°	5346.0	13.3
50°-60°	7574.2	18.9
60°-70°	9608.0	23.9
70°-80°	7998.0	19.9
80°-90°	1343.8	3.3
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°	40124.0	100.0
0°-180°	40124.0	100.0

Coefficient of Utilization



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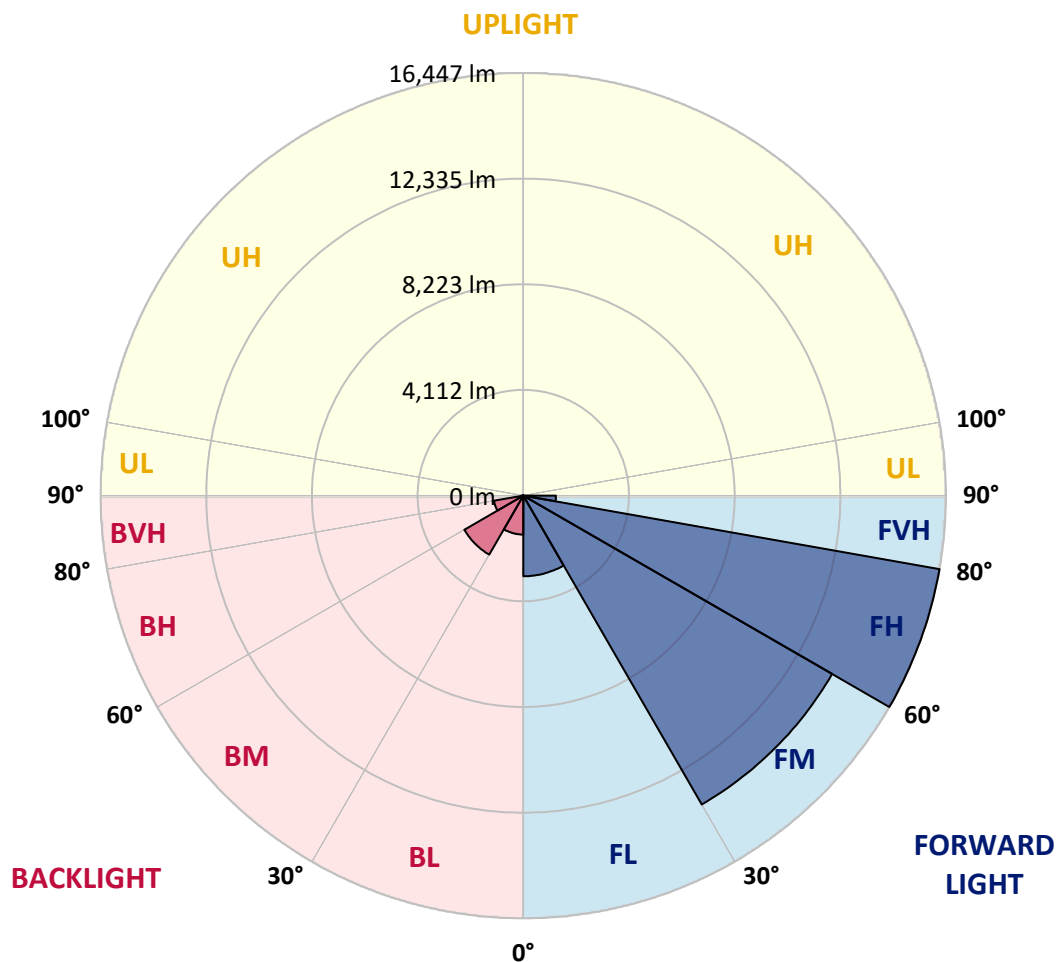
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3136.6	7.8			
FM	(30°-60°)	13876.0	34.6			
FH	(60°-80°)	16446.7	41.0			G5
FVH	(80°-90°)	1270.9	3.2			G5
BL	(0°-30°)	1513.6	3.8	B3/2500		
BM	(30°-60°)	2648.1	6.6	B3/5000		
BH	(60°-80°)	1159.4	2.9	B3/2500		G3/2500
BVH	(80°-90°)	72.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1
2.5°	7332.3	7368.6	7350.5	7325.5	7309.7	7293.8	7271.2	7205.5	7153.3	7096.7	7008.3
5°	7386.7	7409.4	7393.5	7361.8	7325.5	7309.7	7266.6	7180.5	7096.7	7001.5	6870.1
7.5°	7355.0	7364.1	7345.9	7307.4	7275.7	7246.2	7196.4	7101.2	6999.3	6883.7	6711.5
10°	7241.7	7275.7	7275.7	7244.0	7212.2	7196.4	7146.5	7055.9	6963.0	6831.6	6627.7
12.5°	7148.8	7185.1	7214.5	7205.5	7203.2	7203.2	7164.7	7096.7	6987.9	6863.3	6620.9
15°	7085.4	7128.4	7191.9	7228.1	7250.8	7257.6	7241.7	7182.8	7071.8	6926.8	6648.0
17.5°	7071.8	7123.9	7239.4	7318.7	7377.7	7375.4	7370.9	7289.3	7166.9	7017.4	6682.0
20°	7132.9	7200.9	7361.8	7486.4	7572.5	7556.7	7531.7	7425.2	7282.5	7114.8	6713.8
22.5°	7316.5	7386.7	7563.5	7699.4	7783.2	7783.2	7708.5	7568.0	7416.2	7228.1	6756.8
25°	7579.3	7656.4	7844.4	7982.6	8021.2	7991.7	7916.9	7747.0	7572.5	7391.3	6847.4
27.5°	7901.1	7994.0	8168.4	8284.0	8272.7	8250.0	8173.0	7955.5	7781.0	7615.6	7001.5
30°	8302.1	8370.1	8551.4	8578.6	8537.8	8533.2	8424.5	8207.0	8043.8	7916.9	7221.3
32.5°	8680.5	8741.7	8886.7	8898.1	8825.5	8834.6	8732.6	8533.2	8440.3	8395.0	7590.6
35°	9081.6	9113.3	9237.9	9224.3	9176.8	9170.0	9129.2	8938.8	8968.3	9049.9	8114.1
37.5°	9416.9	9480.4	9550.6	9562.0	9559.7	9582.3	9609.5	9518.9	9688.8	9944.9	8800.6
40°	9725.1	9779.5	9883.7	9920.0	10008.3	10053.6	10146.5	10148.8	10540.8	10962.3	9645.8
42.5°	9933.6	10026.5	10221.3	10287.0	10502.3	10638.2	10776.5	10923.7	11492.5	12034.0	10642.8
45°	10114.8	10237.2	10561.2	10765.1	11057.4	11222.8	11515.1	11823.3	12641.3	13350.5	11655.6
47.5°	10389.0	10497.8	10869.4	11229.6	11671.5	11861.8	12299.1	12759.1	13828.6	14605.8	12625.4
50°	10769.7	10835.4	11213.8	11800.6	12364.8	12609.5	13187.3	13851.2	15097.5	15845.2	13477.4
52.5°	11256.8	11284.0	11585.4	12367.1	13110.3	13413.9	14179.8	14954.7	16207.7	16921.5	14152.6
55°	11832.3	11787.0	12022.7	12967.5	13962.3	14358.8	15181.3	16071.8	17456.2	17791.6	14644.3
57.5°	12401.1	12330.8	12518.9	13697.2	15013.6	15491.7	16450.2	17222.8	18571.0	18605.0	14988.7
60°	13003.8	12951.7	13176.0	14553.7	16302.9	16869.4	17755.3	18417.0	19649.6	19171.5	15043.1
62.5°	13622.4	13538.5	13858.0	15516.6	17755.3	18269.7	19128.4	19685.8	20707.7	19382.2	14519.7
65°	14222.8	14184.3	14678.3	16660.9	19409.4	19994.0	20827.8	21206.2	21555.2	19065.0	13221.3
67.5°	14861.8	14938.8	15727.4	18188.1	21566.5	22300.6	23200.2	22844.5	21797.6	17562.7	11134.5
70°	15836.1	15886.0	17105.0	20188.9	24346.7	25232.7	25667.7	23426.8	20628.4	14710.0	8370.1
72.5°	16255.3	16475.1	18335.4	22289.3	27505.3	28046.9	26497.0	22128.4	17184.3	9992.5	4398.0
73°	16162.4	16425.3	18392.0	22608.8	27752.3	28321.0	26320.3	21460.0	15974.3	8605.8	3770.4
75°	15004.6	15328.6	17655.6	22341.4	27272.0	26932.1	23478.9	18290.1	10794.6	3913.1	1717.5
77.5°	11839.1	11932.0	13989.5	18040.8	21475.9	20846.0	17571.8	11431.3	4409.4	1454.7	974.3
80°	5938.8	6281.0	7885.2	10334.6	14361.1	14154.9	11091.4	5406.4	1837.6	854.2	645.8
82.5°	2857.3	3099.7	3840.6	5039.3	7935.1	7747.0	5492.5	2954.7	1166.9	498.5	380.7
85°	1839.9	2021.2	2444.9	2404.1	3262.8	3115.6	2467.5	2236.4	691.1	260.6	265.1
87.5°	1214.5	1330.1	1595.2	1275.7	1187.3	1074.0	1089.9	1259.8	136.0	99.7	36.3
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°	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1	7049.1
2.5°	6972.1	6942.6	6845.2	6750.0	6659.4	6573.3	6516.6	6441.9	6392.0	6405.6	6426.0
5°	6797.6	6731.9	6559.7	6392.0	6233.4	6045.3	5893.5	5771.2	5678.3	5644.3	5637.5
7.5°	6614.1	6503.0	6256.1	5968.3	5698.7	5465.3	5195.6	5061.9	4905.6	4851.2	4833.1
10°	6503.0	6353.5	6006.8	5605.8	5200.2	4812.7	4520.4	4282.5	4067.2	4026.4	4006.0
12.5°	6471.3	6274.2	5807.4	5290.8	4751.5	4275.7	3842.9	3530.2	3321.8	3274.2	3203.9
15°	6453.2	6208.5	5621.6	4973.6	4289.3	3709.2	3253.8	2889.0	2698.6	2571.8	2574.0
17.5°	6437.3	6133.7	5413.2	4626.9	3890.5	3222.1	2719.0	2390.5	2216.0	2148.0	2141.2
20°	6414.7	6045.3	5173.0	4262.1	3435.1	2778.0	2322.5	2077.8	1960.0	1903.3	1901.1
22.5°	6405.6	5959.2	4937.3	3890.5	3031.7	2435.8	2059.7	1887.5	1812.7	1774.2	1774.2
25°	6428.3	5898.0	4690.3	3537.0	2673.7	2143.5	1878.4	1760.6	1717.5	1697.1	1690.3
27.5°	6498.5	5870.9	4445.6	3183.5	2345.2	1944.1	1756.0	1674.5	1642.8	1626.9	1629.2
30°	6632.2	5868.6	4205.4	2834.6	2100.5	1792.3	1658.6	1602.0	1577.0	1568.0	1565.7
32.5°	6847.4	5918.4	3969.8	2546.8	1894.3	1665.4	1568.0	1527.2	1515.9	1509.1	1506.8
35°	7212.2	6058.9	3736.4	2284.0	1735.7	1552.1	1481.9	1461.5	1445.6	1452.4	1454.7
37.5°	7703.9	6301.4	3514.4	2077.8	1615.6	1468.3	1409.4	1391.2	1382.2	1389.0	1395.8
40°	8363.3	6650.3	3328.6	1912.4	1529.5	1398.0	1345.9	1330.1	1321.0	1332.3	1334.6
42.5°	9090.7	7053.6	3174.5	1783.2	1459.2	1339.1	1289.3	1271.2	1264.4	1271.2	1273.4
45°	9838.4	7522.7	3095.2	1690.3	1400.3	1296.1	1244.0	1223.6	1207.7	1203.2	1210.0
47.5°	10574.8	7930.5	3092.9	1633.7	1352.7	1257.6	1200.9	1178.2	1157.9	1146.5	1144.3
50°	11175.2	8254.5	3147.3	1608.8	1311.9	1214.5	1157.9	1135.2	1108.0	1085.3	1089.9
52.5°	11628.4	8465.3	3172.2	1597.4	1289.3	1169.2	1112.5	1092.1	1060.4	1031.0	1031.0
55°	11920.7	8515.1	3111.0	1586.1	1271.2	1121.6	1060.4	1042.3	1010.6	981.1	981.1
57.5°	12020.4	8361.0	2891.2	1558.9	1253.0	1080.8	1008.3	992.4	967.5	938.1	933.5
60°	11789.3	7839.9	2506.0	1477.3	1216.8	1037.8	951.7	944.9	935.8	910.9	908.6
62.5°	10898.8	6734.2	2086.9	1370.8	1155.6	992.4	899.5	910.9	917.7	904.1	901.8
65°	9416.9	5467.5	1783.2	1223.6	1074.0	929.0	842.9	872.4	890.5	890.5	886.0
67.5°	7638.2	4198.6	1502.3	1096.7	972.1	842.9	779.5	802.1	815.7	811.2	822.5
70°	5429.0	2843.7	1223.6	951.7	842.9	745.5	697.9	697.9	688.8	684.3	684.3
72.5°	2632.9	1624.6	992.4	795.3	718.3	636.7	598.2	582.3	564.2	561.9	550.6
73°	2200.2	1457.0	947.1	765.9	688.8	620.8	577.8	552.9	541.5	532.5	530.2
75°	1339.1	1105.7	790.8	645.8	586.9	534.7	496.2	473.6	462.2	455.4	453.2
77.5°	881.4	824.8	614.0	494.0	448.6	416.9	401.1	378.4	371.6	362.5	362.5
80°	657.1	629.9	439.6	348.9	321.8	294.6	290.0	285.5	267.4	256.0	251.5
82.5°	423.7	448.6	299.1	233.4	203.9	181.3	183.5	190.3	172.2	156.3	151.8
85°	301.4	324.0	181.3	106.5	86.1	74.8	83.8	74.8	77.0	61.2	49.8
87.5°	49.8	86.1	31.7	13.6	6.8	4.5	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)