

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: P457766

Luminaire Tested: **GALN-SA9A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457766
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-SA9A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 30421 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

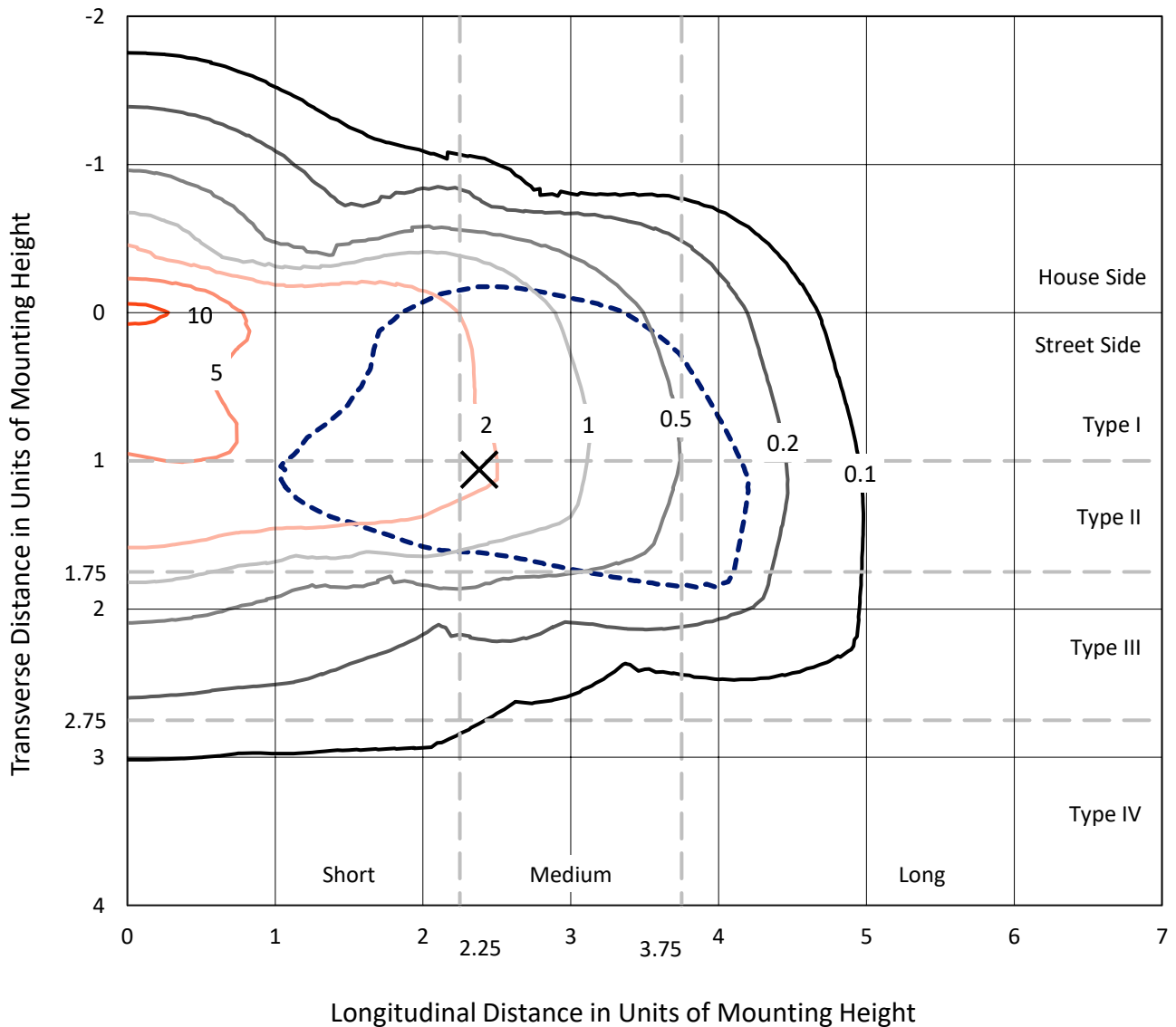
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

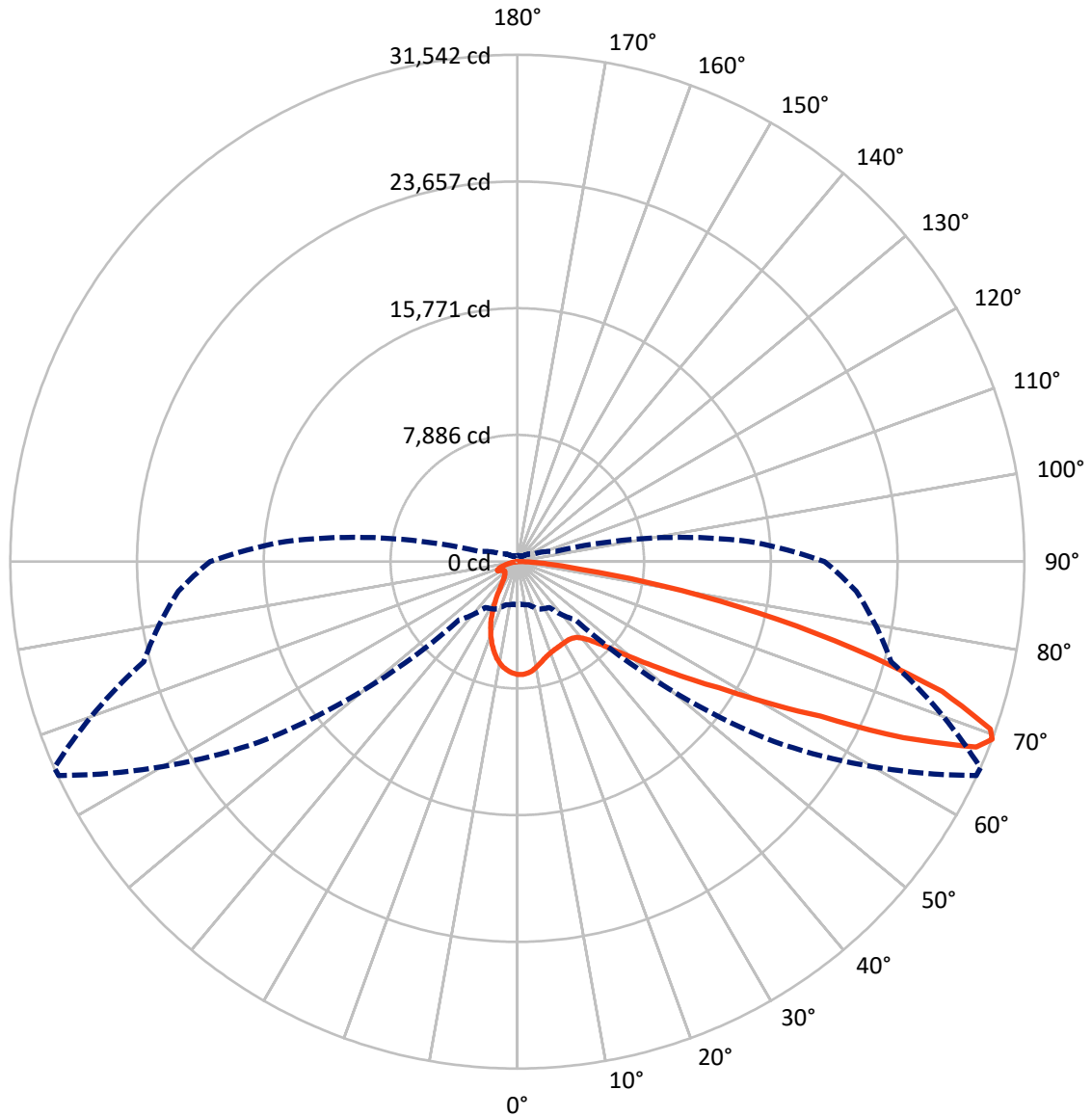
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5721.0	0.0	5721.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24700.0	0.0	24700.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	30421.0	0.0	30421.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	2.0
10°-20°	1447.0	4.8
20°-30°	1969.9	6.5
30°-40°	2647.1	8.7
40°-50°	3952.6	13.0
50°-60°	6287.2	20.7
60°-70°	7732.9	25.4
70°-80°	5031.4	16.5
80°-90°	743.0	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°	30421.0	100.0
0°-180°	30421.0	100.0



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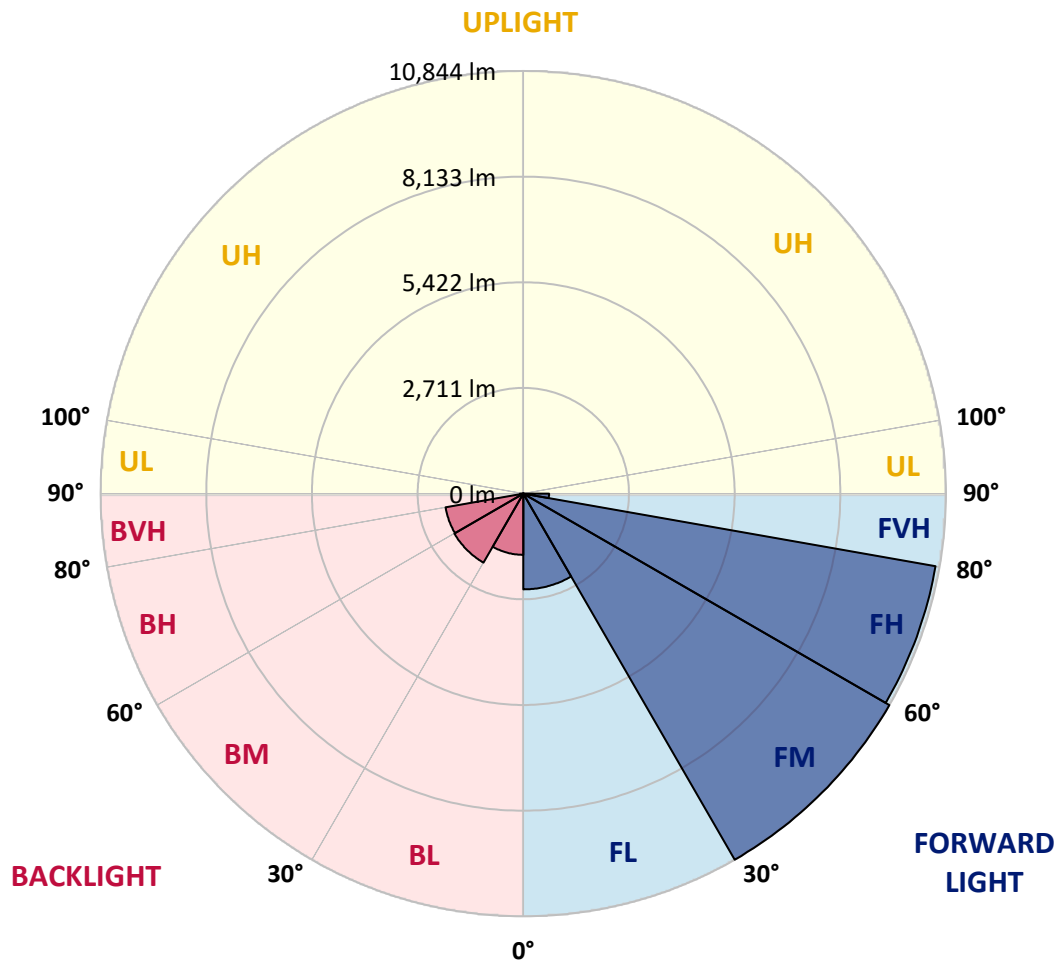
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2456.5	8.1			
FM	(30°-60°)	10844.2	35.6			
FH	(60°-80°)	10738.8	35.3			G4/12000
FVH	(80°-90°)	660.6	2.2			G4/750
BL	(0°-30°)	1570.4	5.2	B3/2500		
BM	(30°-60°)	2042.7	6.7	B2/2500		
BH	(60°-80°)	2025.5	6.7	B3/2500		G3/2500
BVH	(80°-90°)	82.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1
2.5°	6779.1	6806.0	6836.4	6870.1	6934.1	6969.5	6994.7	7023.4	7026.7	7041.9	7030.1
5°	6278.7	6310.8	6356.2	6420.3	6516.3	6666.2	6821.2	6947.6	6962.7	7033.5	7053.7
7.5°	5861.0	5879.5	5916.5	6019.3	6155.8	6322.5	6548.3	6804.4	6841.4	7009.9	7068.9
10°	5520.6	5539.2	5583.0	5689.1	5823.9	6032.8	6280.4	6617.4	6647.7	6937.5	7072.2
12.5°	5266.3	5283.1	5330.3	5434.7	5589.7	5785.1	6058.1	6415.2	6459.0	6841.4	7040.2
15°	5072.5	5104.5	5143.3	5229.2	5392.6	5581.3	5845.8	6229.9	6265.3	6740.3	7018.3
17.5°	4990.0	5005.1	5032.1	5111.3	5230.9	5416.2	5682.4	6085.0	6127.1	6669.6	7013.3
20°	4993.3	5008.5	5013.6	5057.4	5143.3	5303.3	5566.1	5970.5	6021.0	6607.3	7021.7
22.5°	5107.9	5109.6	5091.1	5075.9	5109.6	5242.7	5483.6	5884.5	5943.5	6580.3	7028.4
25°	5284.8	5315.1	5288.2	5217.4	5155.1	5219.1	5451.6	5837.4	5893.0	6541.6	7020.0
27.5°	5571.2	5576.2	5554.3	5458.3	5296.6	5249.4	5438.1	5802.0	5849.2	6512.9	6977.9
30°	5955.3	5940.1	5919.9	5813.8	5559.4	5365.7	5466.7	5770.0	5818.8	6470.8	6927.3
32.5°	6344.4	6391.6	6373.1	6248.4	5918.2	5591.4	5559.4	5766.6	5807.0	6438.8	6871.7
35°	6757.2	6779.1	6866.7	6802.7	6464.1	5957.0	5732.9	5818.8	5850.8	6440.5	6833.0
37.5°	7080.6	7139.6	7345.1	7400.7	7082.3	6440.5	6014.3	5967.1	5980.6	6523.0	6848.2
40°	7471.5	7572.6	7837.1	8064.5	7855.6	7068.9	6492.7	6241.7	6258.5	6721.8	6947.6
42.5°	7966.8	8037.5	8393.0	8701.3	8667.6	7899.4	7072.2	6691.5	6699.9	7117.7	7225.5
45°	8546.3	8647.4	9046.7	9509.9	9589.1	8839.4	7909.5	7372.1	7367.0	7732.6	7744.4
47.5°	9287.6	9349.9	9745.8	10251.2	10571.3	10020.4	8925.4	8349.2	8295.3	8628.9	8532.8
50°	9969.8	10067.6	10367.4	10920.0	11716.8	11403.5	10261.3	9616.1	9489.7	9801.4	9639.7
52.5°	10256.2	10359.0	10611.7	11297.4	12699.0	13192.6	11957.8	11127.2	10916.6	11155.9	11096.9
55°	9759.3	9892.4	10128.2	10962.1	13130.3	15256.3	14245.5	12874.2	12720.9	12618.1	12635.0
57.5°	8423.3	8549.7	8868.1	9787.9	12614.8	16754.0	17512.1	15119.9	14791.4	14318.0	14398.8
60°	6411.8	6491.0	6656.1	7675.3	11086.8	17143.2	21221.7	17958.5	17749.6	16011.1	16068.3
62.5°	4553.7	4642.9	4757.5	5266.3	8116.7	16046.4	24126.1	21922.5	21176.2	17764.8	17709.2
65°	3697.8	3637.2	3775.3	4012.9	4762.5	12436.2	24779.7	27424.7	26397.0	20074.5	19302.9
67.5°	3040.8	2976.8	3113.3	3536.1	3622.0	7218.8	22424.6	30996.2	30790.6	22586.3	20921.9
69°	2692.1	2658.4	2778.0	3259.8	3477.1	5126.4	19535.4	31493.1	31542.0	24067.1	21171.2
70°	2425.9	2439.4	2555.6	3120.0	3411.4	4226.8	16696.7	30807.5	31221.9	24806.7	20901.6
72.5°	1785.7	1814.4	1976.1	2584.3	3349.1	3586.7	9936.2	26909.2	27642.0	24850.5	19121.0
75°	1248.3	1234.9	1378.1	1945.8	3163.8	3554.6	5835.7	20810.7	21641.2	21479.5	16066.7
77.5°	817.1	839.0	953.5	1374.7	2661.8	3527.7	3804.0	14764.4	15303.5	14365.1	9503.2
80°	576.2	574.5	638.5	938.4	1974.4	3389.5	3114.9	9306.1	9169.6	5645.3	2818.4
82.5°	330.2	353.8	427.9	660.4	1320.8	2983.5	2865.6	4450.9	4063.4	1608.9	951.8
85°	183.6	192.1	254.4	399.3	771.6	2247.3	2501.7	2025.0	1910.4	672.2	409.4
87.5°	59.0	64.0	106.1	202.2	350.4	1061.3	1416.8	935.0	862.5	242.6	165.1
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°	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1	7025.1
2.5°	7035.2	7055.4	7001.5	6949.2	6902.1	6836.4	6777.4	6728.6	6694.9	6689.8	6673.0
5°	7058.7	7060.4	6957.7	6819.5	6684.8	6536.5	6383.2	6273.7	6170.9	6113.7	6085.0
7.5°	7075.6	7060.4	6875.1	6651.1	6391.6	6122.1	5852.5	5636.9	5470.1	5404.4	5429.7
10°	7068.9	7021.7	6750.5	6391.6	6014.3	5611.6	5224.1	4920.9	4642.9	4499.7	4503.1
12.5°	7031.8	6954.3	6565.1	6100.2	5545.9	5006.8	4413.8	4004.4	3682.7	3492.3	3433.3
15°	6999.8	6865.0	6347.8	5704.3	5015.2	4245.4	3522.6	3017.2	2747.7	2597.8	2596.1
17.5°	6966.1	6779.1	6110.3	5284.8	4405.4	3414.8	2656.7	2270.9	2144.6	2159.7	2134.5
20°	6930.7	6678.0	5862.6	4818.1	3662.5	2547.2	1989.6	1832.9	1868.3	1937.4	1947.5
22.5°	6890.3	6570.2	5596.5	4304.3	2880.8	1917.1	1613.9	1590.3	1681.3	1789.1	1804.3
25°	6827.9	6435.4	5261.2	3766.9	2222.1	1544.8	1413.4	1430.3	1519.6	1610.5	1620.6
27.5°	6740.3	6268.6	4922.6	3096.4	1669.5	1325.8	1292.1	1314.0	1357.8	1413.4	1426.9
30°	6622.4	6080.0	4533.4	2516.9	1337.6	1216.3	1202.9	1214.6	1239.9	1263.5	1270.2
32.5°	6504.5	5898.0	4140.9	1927.3	1192.7	1143.9	1130.4	1130.4	1130.4	1133.8	1135.5
35°	6395.0	5726.2	3719.7	1501.0	1116.9	1086.6	1068.1	1047.9	1044.5	1032.7	1032.7
37.5°	6334.3	5569.5	3271.6	1256.8	1061.3	1039.4	1014.2	980.5	961.9	963.6	960.3
40°	6346.1	5466.7	2863.9	1118.6	1015.9	992.3	953.5	914.8	903.0	903.0	899.6
42.5°	6479.2	5433.0	2473.1	1046.2	972.1	945.1	896.2	860.9	854.1	852.4	855.8
45°	6785.8	5515.6	2122.7	999.0	935.0	894.6	845.7	813.7	807.0	807.0	805.3
47.5°	7383.9	5783.5	1871.7	968.7	908.0	855.8	805.3	773.3	761.5	758.1	758.1
50°	8313.8	6364.7	1684.7	941.7	874.3	820.4	768.2	731.1	712.6	710.9	709.2
52.5°	9606.0	7271.0	1612.2	921.5	837.3	783.4	726.1	690.7	667.1	662.1	658.7
55°	11117.1	8536.2	1711.6	906.3	798.5	741.3	682.3	645.2	623.3	613.2	611.5
57.5°	12867.5	10055.8	2089.0	886.1	763.2	695.8	638.5	601.4	577.8	566.0	562.7
60°	14439.3	11617.5	2747.7	874.3	732.8	646.9	587.9	554.3	532.4	520.6	518.9
62.5°	16166.0	13106.7	3534.4	906.3	719.4	599.7	540.8	510.5	491.9	480.1	480.1
65°	18010.8	14597.6	4055.0	1014.2	739.6	562.7	490.2	465.0	448.1	439.7	438.0
67.5°	19254.0	15113.1	3340.7	1125.4	790.1	522.2	441.4	421.2	411.1	402.6	402.6
69°	19119.3	14461.2	2464.7	1154.0	805.3	502.0	414.4	399.3	385.8	382.4	379.0
70°	18693.0	13718.2	2065.4	1135.5	793.5	483.5	397.6	379.0	367.3	363.9	362.2
72.5°	16649.5	11897.1	1538.1	987.2	675.6	419.5	352.1	335.2	325.1	320.1	320.1
75°	13832.8	9723.9	1201.2	785.1	529.0	353.8	301.6	288.1	279.7	276.3	274.6
77.5°	7752.8	5429.7	862.5	614.9	401.0	286.4	252.7	240.9	232.5	229.1	229.1
80°	2159.7	1551.6	507.1	406.0	272.9	217.3	200.5	192.1	180.3	171.8	176.9
82.5°	813.7	672.2	289.8	244.3	173.5	144.9	139.8	133.1	128.0	116.2	116.2
85°	395.9	326.8	185.3	129.7	96.0	75.8	72.4	69.1	65.7	57.3	59.0
87.5°	136.5	144.9	80.9	47.2	28.6	18.5	15.2	8.4	8.4	8.4	8.4
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)