

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: P527487

Luminaire Tested: **GALN-SA2C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8516 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

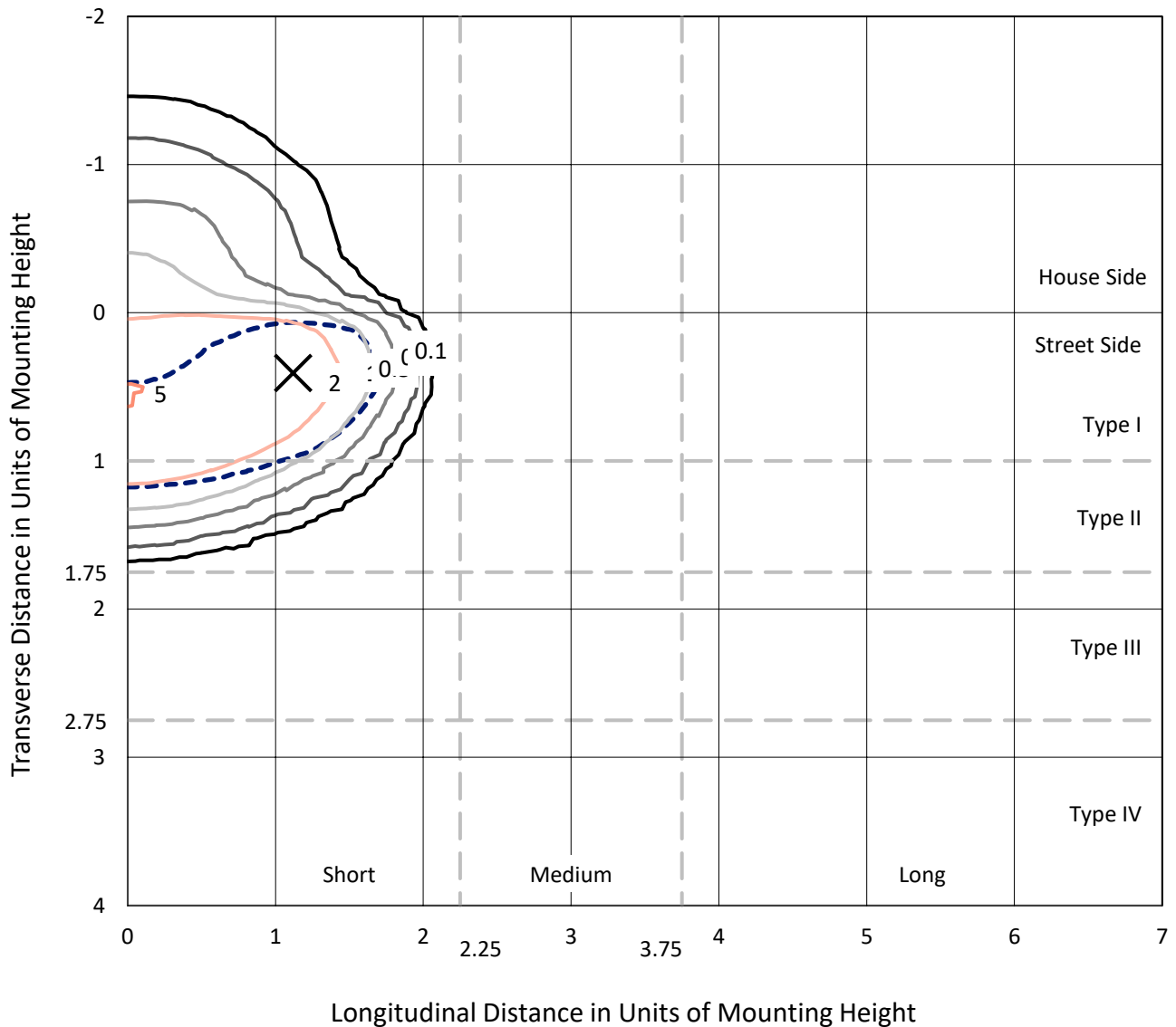
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

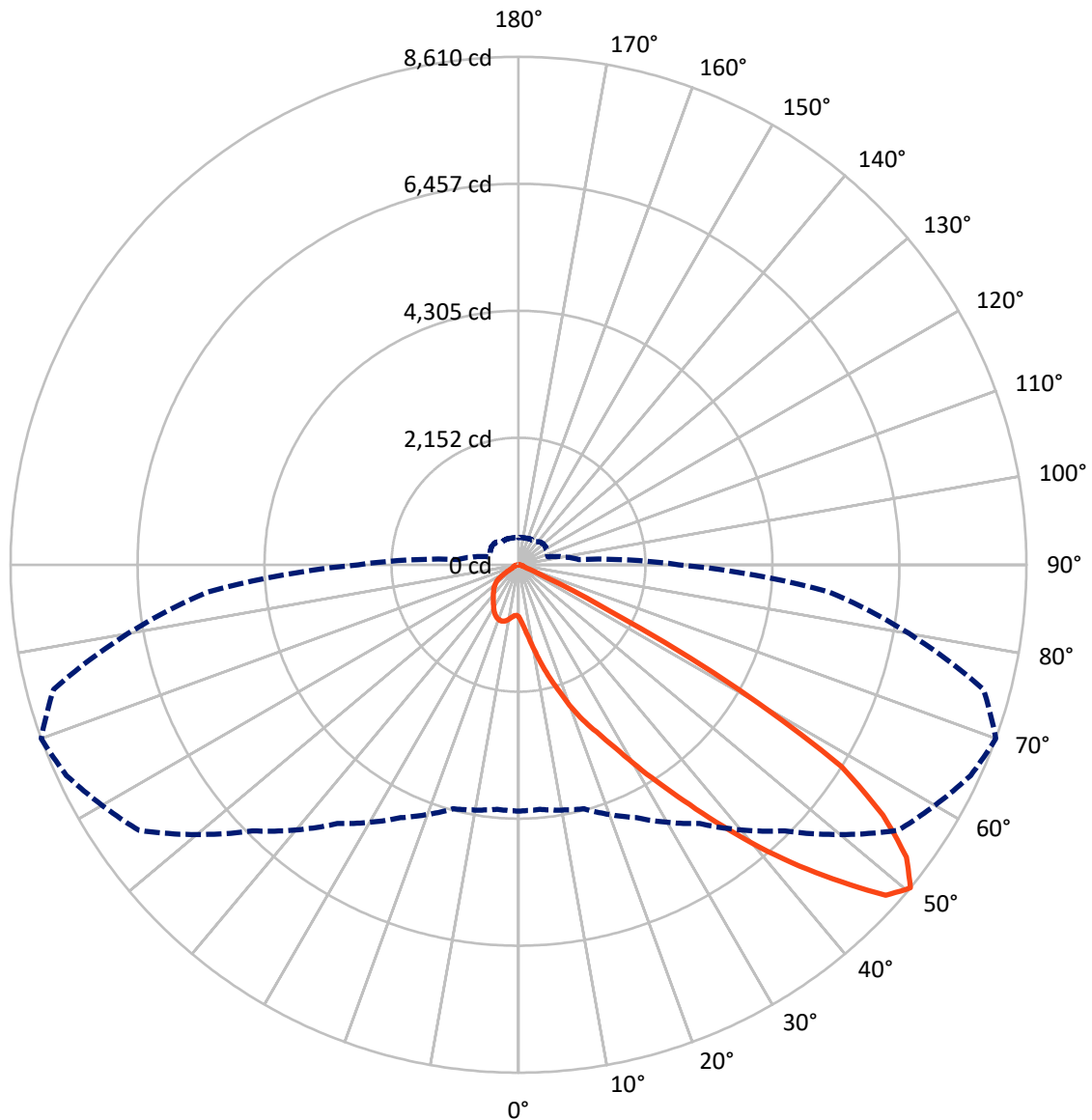
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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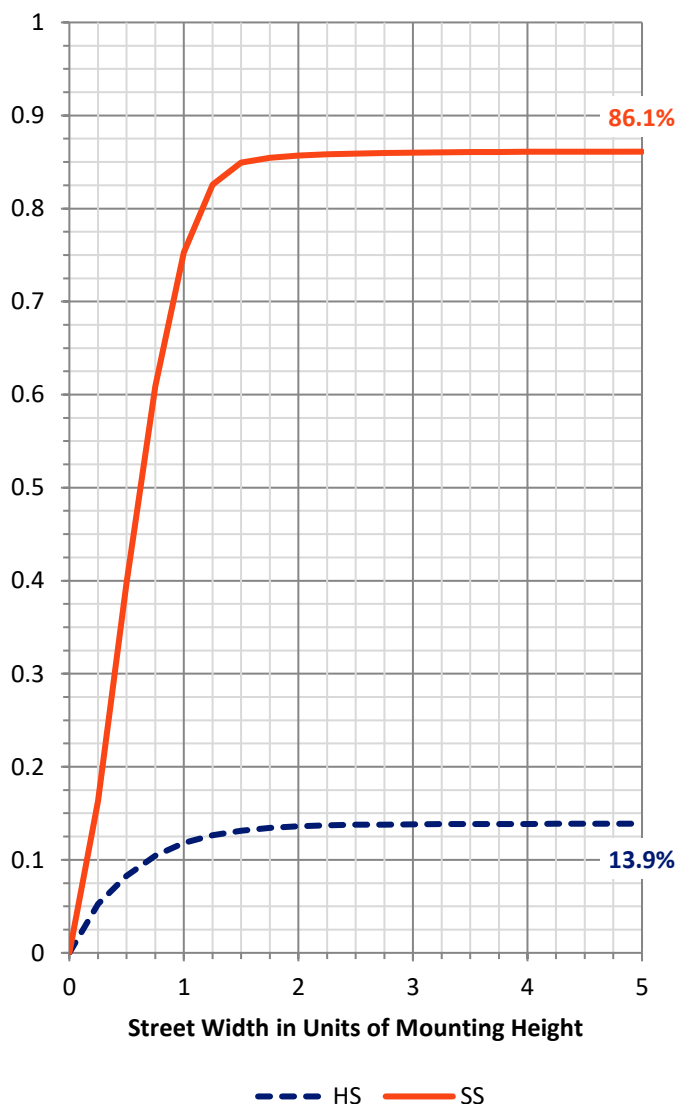
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.3	0.0	1189.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7326.7	0.0	7326.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	8516.0	0.0	8516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.3
10°-20°	496.2	5.8
20°-30°	1040.9	12.2
30°-40°	1794.1	21.1
40°-50°	2622.1	30.8
50°-60°	2042.2	24.0
60°-70°	346.0	4.1
70°-80°	47.5	0.6
80°-90°	12.3	0.1
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°	8516.0	100.0
0°-180°	8516.0	100.0

Coefficient of Utilization

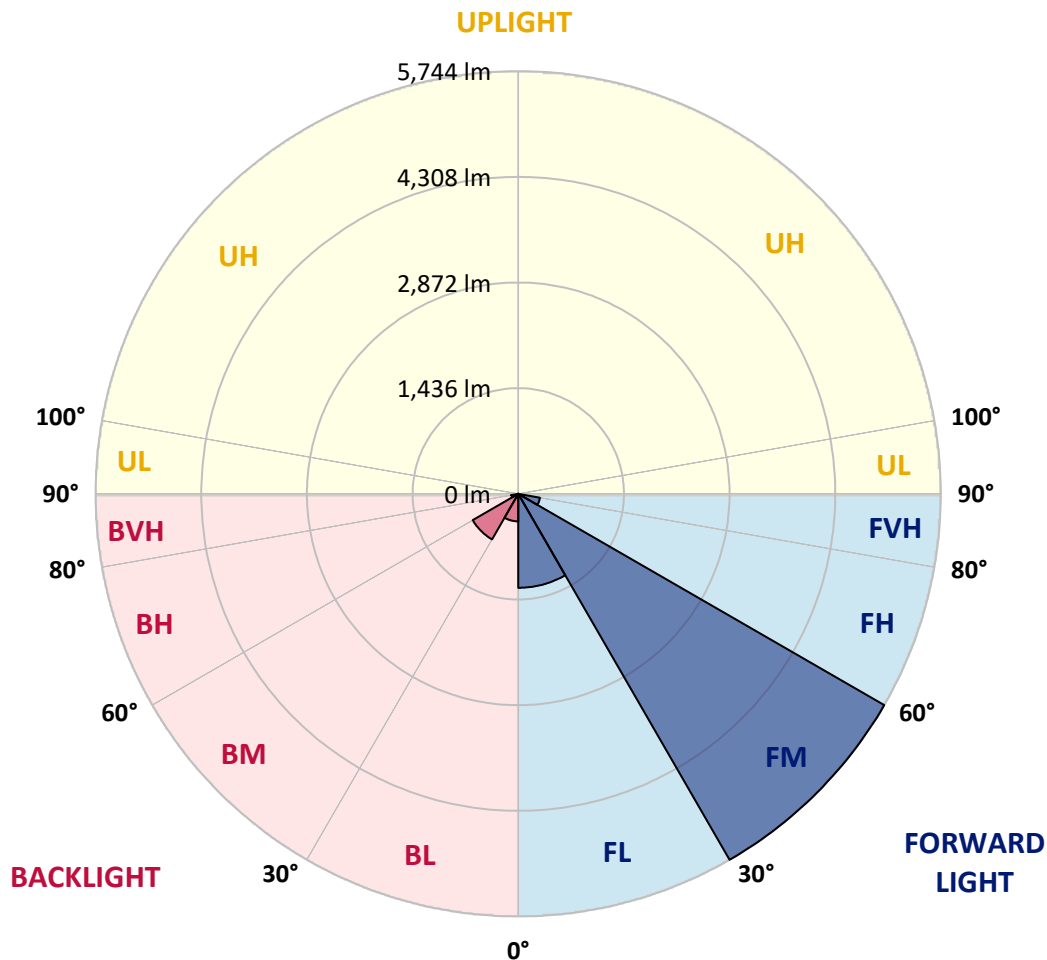


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.5	15.0			
FM (30°-60°)	5743.9	67.4			
FH (60°-80°)	299.6	3.5			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	374.3	4.4	B1/500		
BM (30°-60°)	714.5	8.4	B1/1000		
BH (60°-80°)	93.9	1.1	B0/110		G0/110
BVH (80°-90°)	6.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1
2.5°	1155.1	1146.7	1128.5	1094.9	1080.9	1047.3	1027.7	989.9	966.1	939.5	910.1
5°	1627.0	1583.6	1557.0	1519.2	1408.5	1339.9	1226.5	1129.9	1085.1	1036.1	968.9
7.5°	2114.2	2086.2	2049.8	1968.6	1893.0	1750.2	1555.6	1342.7	1251.7	1167.7	1034.7
10°	2517.5	2439.0	2434.8	2374.6	2292.0	2121.2	1887.4	1622.8	1460.3	1337.1	1128.5
12.5°	2798.9	2727.5	2759.7	2752.7	2675.7	2518.9	2248.6	1898.6	1729.2	1537.4	1225.1
15°	3055.1	3025.7	3015.9	3007.5	2976.7	2860.5	2618.3	2234.6	1989.6	1758.6	1334.3
17.5°	3305.7	3230.1	3266.5	3273.5	3270.7	3165.7	2938.9	2553.9	2265.4	1992.4	1449.1
20°	3528.4	3535.4	3486.4	3476.6	3468.2	3464.0	3242.7	2870.3	2604.3	2237.4	1599.0
22.5°	3814.0	3765.0	3808.4	3780.4	3725.8	3692.2	3522.8	3150.3	2898.3	2532.9	1751.6
25°	4151.4	4190.6	4088.4	4077.2	4017.0	3900.8	3748.2	3464.0	3181.1	2807.3	1916.8
27.5°	4567.3	4498.7	4472.1	4410.4	4301.2	4252.2	4073.0	3787.4	3522.8	3095.7	2076.4
30°	4924.3	4906.1	4773.1	4700.3	4605.1	4603.7	4353.0	4225.6	3968.0	3548.0	2296.2
32.5°	5215.5	5135.7	5086.7	5036.3	4959.3	4980.3	4768.9	4701.7	4442.7	3968.0	2555.3
35°	5410.2	5352.7	5323.3	5246.3	5223.9	5317.7	5229.5	5201.5	4988.7	4558.9	2859.1
37.5°	5471.8	5490.0	5484.4	5387.7	5435.4	5688.8	5802.2	5729.4	5617.4	5181.9	3188.1
40°	5526.4	5539.0	5511.0	5624.4	5760.2	6048.6	6458.9	6338.4	6296.4	5813.4	3646.0
42.5°	5557.2	5547.4	5547.4	5743.4	5949.2	6528.9	7093.1	7013.3	6981.1	6485.5	4175.2
45°	5424.2	5328.9	5431.2	5697.2	6111.6	6765.5	7600.0	7710.6	7664.4	7284.9	4794.1
47.5°	4927.1	4985.9	5043.3	5399.0	5914.2	6692.7	7910.8	8287.4	8372.9	7957.0	5200.1
50°	4175.2	4162.6	4281.6	4729.7	5355.5	6379.1	7850.6	8454.1	8609.5	8158.6	5285.5
52.5°	3036.9	3129.3	3258.1	3703.4	4445.5	5567.0	7073.5	8024.2	8231.4	7910.8	5229.5
55°	1768.4	1666.2	1956.0	2332.6	3032.7	4199.0	5980.0	7112.7	7496.4	7460.0	4946.7
57.5°	708.5	686.1	785.5	1058.5	1582.2	2602.9	4348.8	5844.2	6458.9	6832.7	4347.4
60°	310.8	303.8	357.0	431.2	646.9	1199.9	2378.8	3634.8	4276.0	4774.5	2992.1
62.5°	224.0	221.2	247.8	274.4	341.6	522.3	999.7	1464.5	1825.8	2205.2	1339.9
65°	180.6	187.6	205.8	219.8	252.0	289.8	352.8	407.4	499.9	518.1	295.4
67.5°	147.0	152.6	169.4	184.8	190.4	156.8	162.4	142.8	142.8	127.4	102.2
70°	107.8	109.2	128.8	147.0	117.6	63.0	110.6	110.6	99.4	95.2	86.8
72.5°	79.8	81.2	96.6	91.0	46.2	39.2	81.2	89.6	81.2	77.0	70.0
75°	58.8	60.2	50.4	21.0	19.6	25.2	47.6	61.6	58.8	57.4	53.2
77.5°	11.2	8.4	7.0	9.8	14.0	21.0	30.8	37.8	39.2	42.0	39.2
80°	1.4	1.4	4.2	8.4	15.4	22.4	32.2	36.4	37.8	39.2	36.4
82.5°	0.0	1.4	4.2	8.4	15.4	21.0	28.0	32.2	35.0	36.4	35.0
85°	0.0	1.4	2.8	7.0	12.6	15.4	14.0	9.8	8.4	9.8	7.0
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1	882.1
2.5°	893.3	887.7	868.1	847.1	828.9	837.3	828.9	821.9	824.7	821.9	819.1
5°	942.3	917.1	875.1	856.9	841.5	840.1	835.9	834.5	835.9	835.9	823.3
7.5°	988.5	947.9	903.1	883.5	865.3	866.7	856.9	856.9	855.5	848.5	845.7
10°	1058.5	1003.9	946.5	911.5	889.1	884.9	875.1	865.3	865.3	865.3	851.3
12.5°	1135.5	1066.9	988.5	947.9	921.3	900.3	884.9	882.1	866.7	863.9	856.9
15°	1202.7	1115.9	1016.5	960.5	926.9	898.9	875.1	859.7	852.7	848.5	842.9
17.5°	1268.5	1157.9	1031.9	960.5	924.1	891.9	866.7	852.7	835.9	838.7	827.5
20°	1356.7	1202.7	1036.1	942.3	897.5	866.7	833.1	826.1	816.3	807.9	810.7
22.5°	1442.1	1234.9	1023.5	919.9	855.5	819.1	802.3	793.9	789.7	782.7	772.9
25°	1519.2	1269.9	1003.9	879.3	810.7	784.1	768.7	767.3	757.5	757.5	739.3
27.5°	1597.6	1282.5	970.3	831.7	771.5	756.1	749.1	746.3	742.1	732.3	719.7
30°	1687.2	1286.7	921.3	782.7	736.5	719.7	729.5	736.5	718.3	700.1	705.7
32.5°	1761.4	1276.9	862.5	736.5	711.3	702.9	722.5	729.5	708.5	688.9	679.1
35°	1851.0	1253.1	805.1	700.1	686.1	702.9	719.7	719.7	677.7	653.9	648.3
37.5°	1986.8	1226.5	751.9	669.3	659.5	694.5	716.9	701.5	635.7	606.3	599.3
40°	2132.4	1209.7	700.1	638.5	645.5	680.5	693.1	645.5	578.3	560.1	554.5
42.5°	2343.8	1176.1	653.9	611.9	632.9	660.9	660.9	575.5	550.3	540.5	539.1
45°	2607.1	1152.3	613.3	589.5	614.7	621.7	599.3	539.1	520.9	518.1	519.5
47.5°	2735.9	1106.1	571.3	562.9	581.1	582.5	523.7	509.7	494.3	490.0	487.2
50°	2716.3	1023.5	516.7	527.9	553.1	539.1	477.4	480.2	466.2	464.8	457.8
52.5°	2579.1	893.3	462.0	488.6	516.7	476.0	439.6	436.8	436.8	418.6	411.6
55°	2286.4	719.7	396.2	429.8	463.4	400.4	390.6	387.8	380.8	364.0	359.8
57.5°	1810.4	527.9	298.2	334.6	393.4	340.2	338.8	326.2	308.0	295.4	295.4
60°	1076.7	303.8	187.6	204.4	260.4	275.8	306.6	301.0	270.2	250.6	245.0
62.5°	491.5	156.8	119.0	121.8	140.0	179.2	240.8	278.6	235.2	201.6	198.8
65°	165.2	116.2	98.0	93.8	96.6	107.8	144.2	197.4	187.6	155.4	149.8
67.5°	100.8	103.6	92.4	85.4	85.4	84.0	82.6	89.6	110.6	107.8	109.2
70°	86.8	95.2	85.4	77.0	74.2	70.0	58.8	49.0	42.0	49.0	51.8
72.5°	70.0	75.6	72.8	65.8	58.8	53.2	42.0	32.2	23.8	21.0	21.0
75°	51.8	56.0	58.8	50.4	44.8	37.8	30.8	21.0	12.6	8.4	8.4
77.5°	37.8	42.0	43.4	39.2	33.6	26.6	19.6	14.0	7.0	2.8	2.8
80°	32.2	37.8	42.0	39.2	35.0	25.2	18.2	9.8	5.6	1.4	1.4
82.5°	30.8	37.8	42.0	37.8	33.6	23.8	18.2	11.2	4.2	1.4	1.4
85°	7.0	9.8	12.6	15.4	18.2	18.2	14.0	8.4	4.2	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	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)