

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: P450938

Luminaire Tested: **GALN-SA1D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5581 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

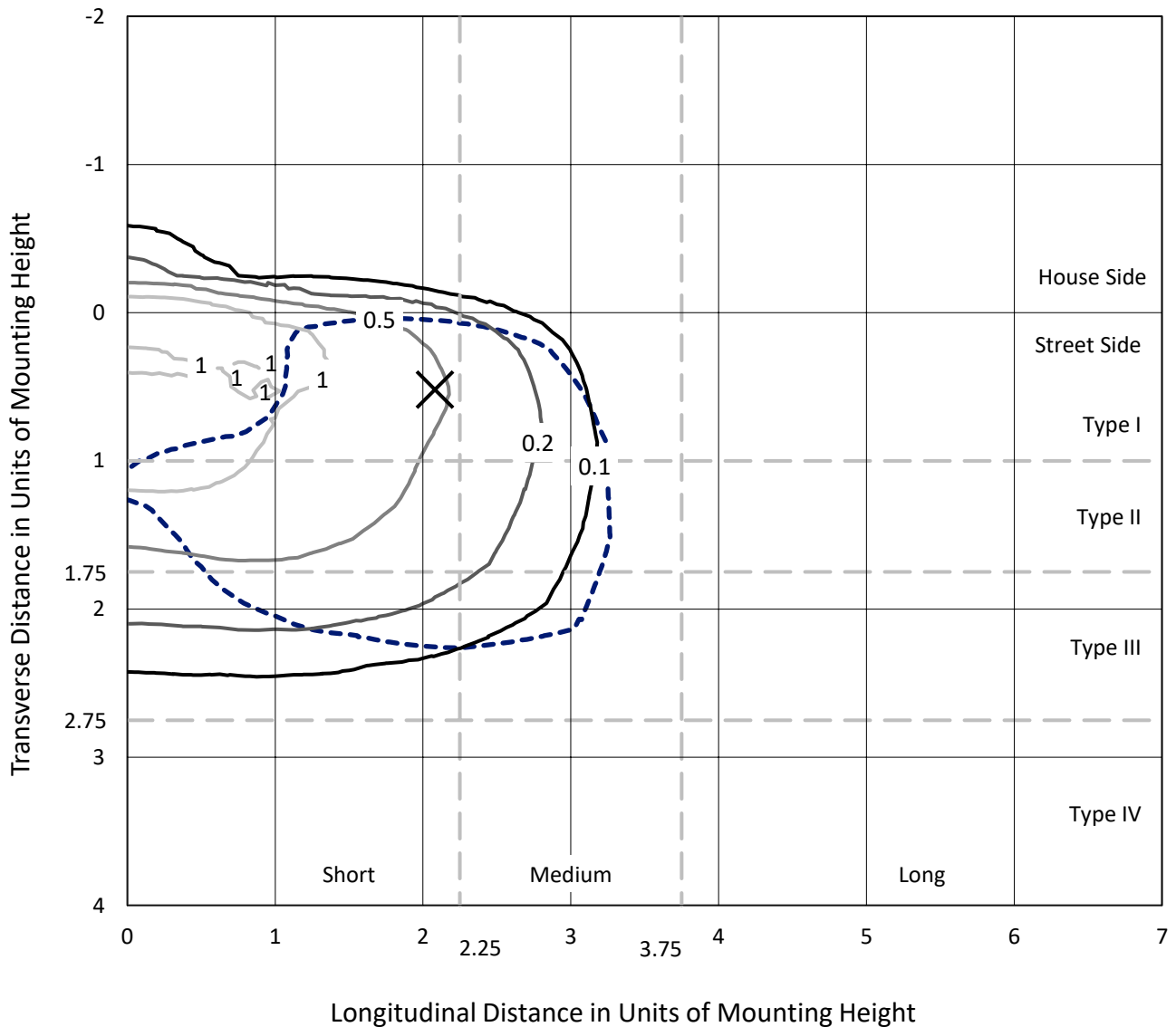
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

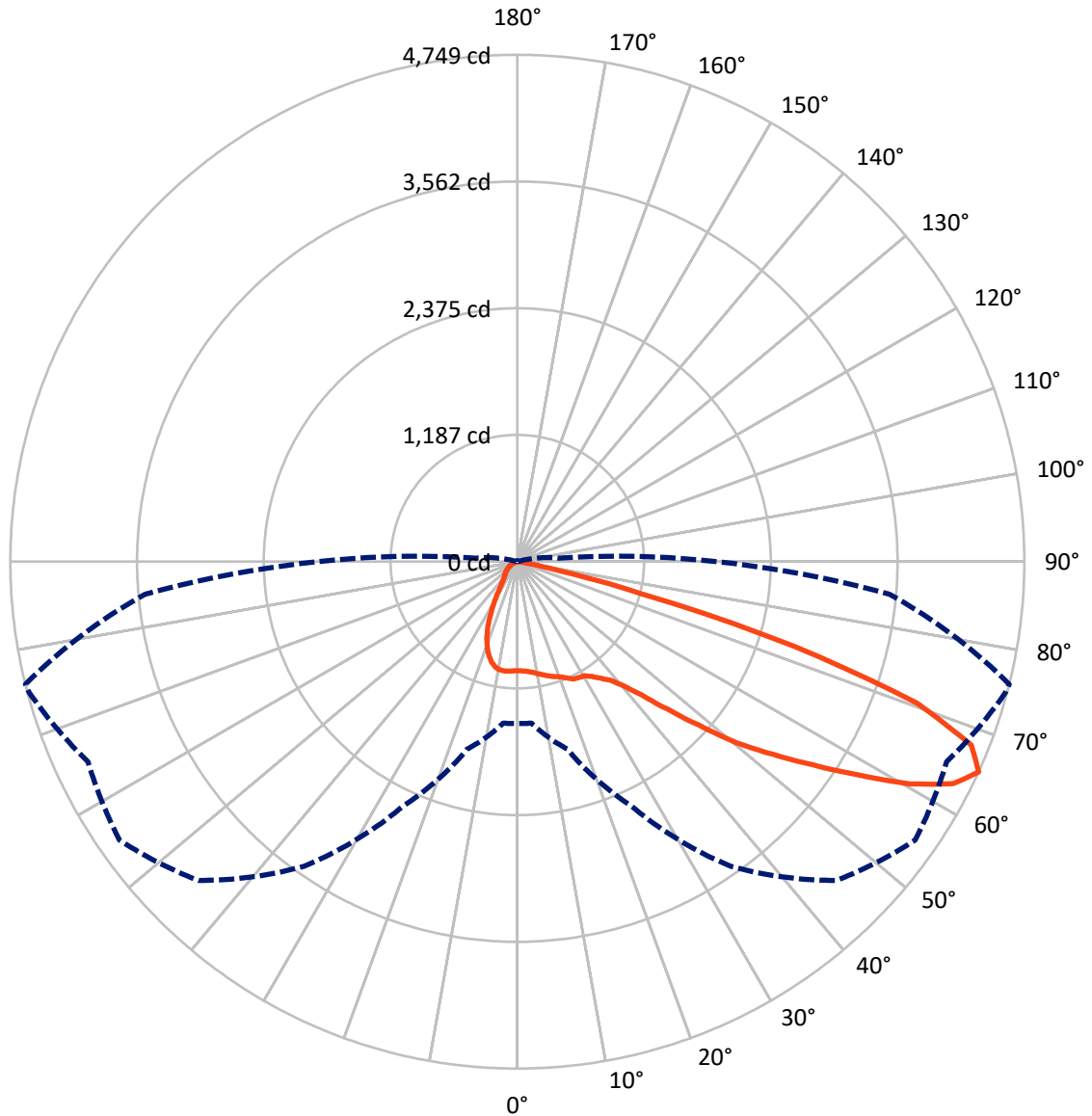
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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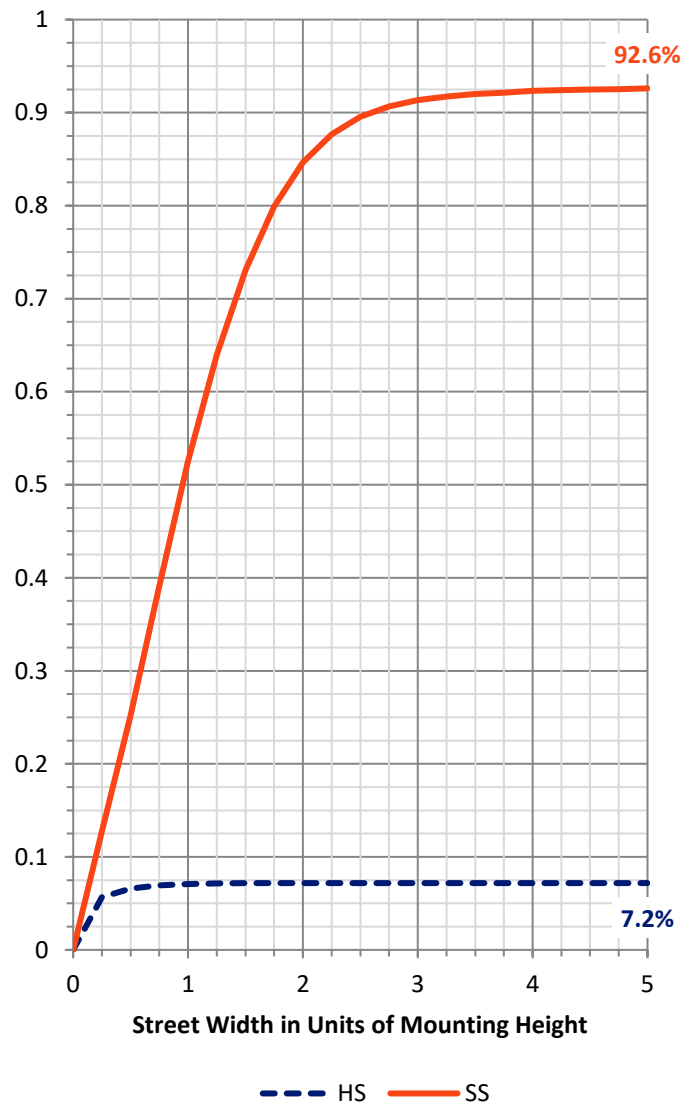
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	403.1	0.0	403.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5177.9	0.0	5177.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	5581.0	0.0	5581.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.5
10°-20°	187.3	3.4
20°-30°	301.8	5.4
30°-40°	524.7	9.4
40°-50°	867.0	15.5
50°-60°	1339.3	24.0
60°-70°	1635.5	29.3
70°-80°	620.7	11.1
80°-90°	20.7	0.4
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°	5581.0	100.0
0°-180°	5581.0	100.0



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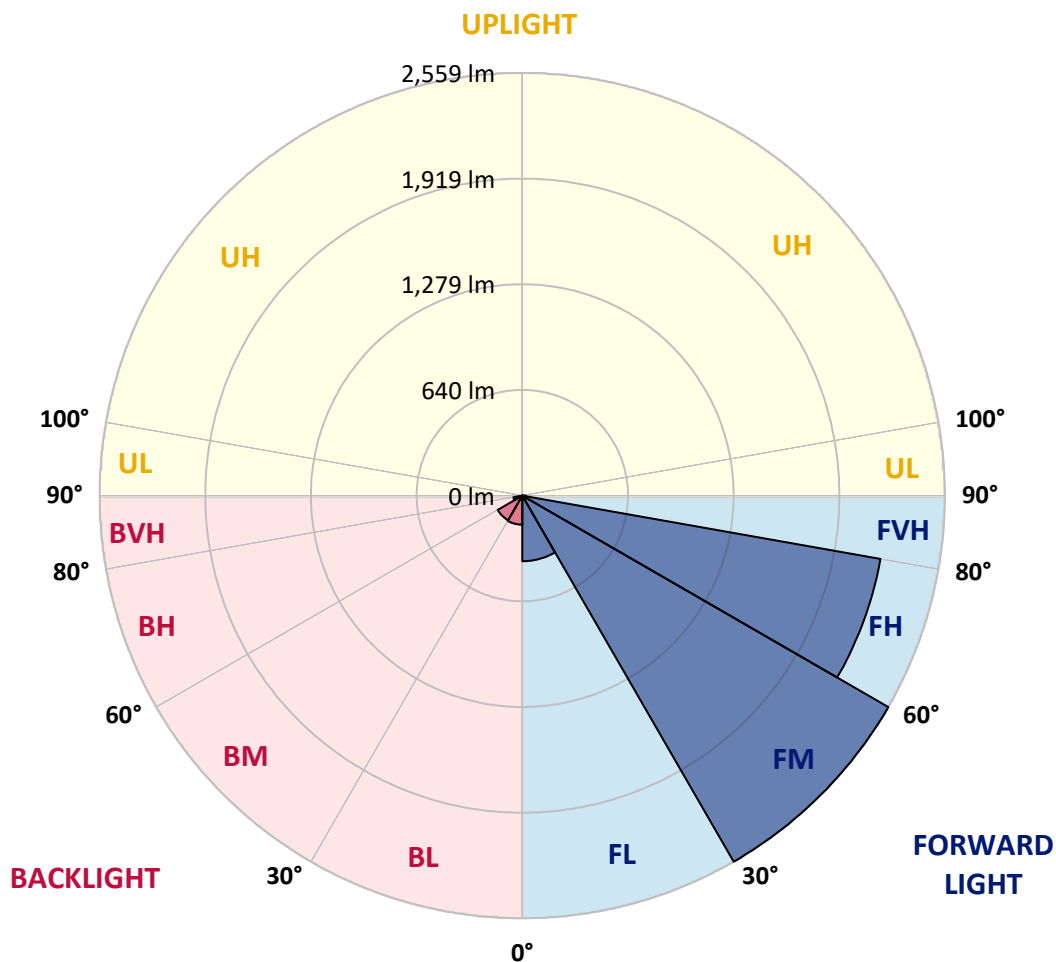
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.0	7.1			
FM (30°-60°)	2559.0	45.9			
FH (60°-80°)	2201.5	39.4			G2/5000
FVH (80°-90°)	20.4	0.4			G1/100
BL (0°-30°)	176.1	3.2	B1/500		
BM (30°-60°)	172.0	3.1	B0/220		
BH (60°-80°)	54.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	975.6	976.0	978.4	984.3	993.4	1000.8	1007.2	1017.4	1024.5	1025.3	1027.6
5°	908.2	903.5	908.2	923.6	937.4	958.3	983.9	1009.5	1032.4	1033.9	1045.0
7.5°	832.6	836.5	844.0	859.8	885.8	917.7	954.7	1000.5	1043.8	1047.7	1069.4
10°	755.8	764.4	776.6	800.7	836.9	878.3	928.7	994.1	1061.9	1067.4	1104.9
12.5°	684.8	688.8	703.7	736.1	781.0	839.3	909.0	990.6	1082.0	1088.7	1142.7
15°	630.5	635.6	648.6	677.7	727.8	802.6	892.9	989.4	1101.7	1111.2	1180.5
17.5°	620.2	623.4	628.9	648.6	692.3	773.5	878.3	989.0	1120.6	1132.1	1215.6
20°	662.4	659.6	654.1	652.1	676.2	751.0	867.7	992.2	1138.8	1151.8	1252.6
22.5°	768.0	771.5	739.2	701.0	693.1	747.5	866.1	1007.2	1167.5	1182.9	1294.0
25°	992.2	965.0	914.6	823.1	754.2	769.2	883.8	1042.6	1201.0	1218.0	1331.4
27.5°	1240.0	1231.8	1153.3	1002.8	874.4	814.9	915.3	1069.8	1212.0	1229.4	1352.7
30°	1483.5	1493.4	1403.6	1237.3	1048.9	899.6	944.9	1080.0	1221.9	1240.0	1379.9
32.5°	1709.3	1721.1	1642.3	1477.6	1254.6	1046.2	995.7	1119.8	1263.3	1281.8	1425.2
35°	1887.0	1888.6	1829.1	1697.9	1479.2	1224.3	1105.7	1189.6	1319.2	1340.9	1473.3
37.5°	2050.2	2047.8	1978.1	1865.0	1666.4	1401.2	1244.0	1270.0	1383.1	1405.5	1542.6
40°	2171.1	2172.7	2150.2	2043.9	1840.9	1564.7	1353.5	1345.2	1490.2	1525.3	1643.5
42.5°	2251.9	2266.5	2277.5	2223.5	2060.4	1766.1	1521.8	1506.4	1676.2	1705.4	1786.2
45°	2317.3	2343.3	2398.5	2395.7	2271.2	2013.1	1752.7	1721.1	1939.8	1971.0	1967.8
47.5°	2365.0	2391.4	2482.8	2538.0	2469.4	2252.7	2043.1	2015.9	2254.7	2288.6	2168.4
50°	2389.4	2420.9	2537.6	2644.4	2624.3	2483.6	2374.1	2375.6	2634.9	2667.6	2400.9
52.5°	2332.3	2373.3	2566.7	2759.0	2798.0	2704.7	2684.2	2736.2	2973.4	3001.4	2610.9
55°	2149.9	2201.5	2526.9	2856.7	2999.4	2965.5	3036.4	3115.6	3343.4	3361.5	2826.4
57.5°	2034.4	2089.2	2409.5	2939.9	3241.3	3293.3	3405.6	3463.6	3725.2	3771.3	3073.9
60°	1937.1	1980.0	2313.0	2957.6	3487.2	3694.5	3803.6	3863.5	4196.5	4226.4	3346.1
62.5°	1775.1	1824.4	2149.9	2833.9	3610.9	4015.6	4241.8	4215.0	4560.9	4581.8	3513.2
65°	1514.7	1519.0	1818.9	2523.0	3483.3	4224.0	4549.5	4437.2	4735.1	4749.3	3500.2
67.5°	1130.5	1172.3	1399.2	1983.2	2942.3	4045.9	4649.2	4443.1	4625.2	4585.8	3222.4
70°	728.2	760.1	948.4	1375.2	2121.5	3376.5	4318.6	4138.5	4059.3	3971.9	2637.7
72.5°	336.1	377.1	563.5	785.7	1258.2	2405.2	3505.7	3362.3	2921.8	2705.8	1676.6
75°	146.6	156.8	278.2	414.5	589.9	1271.9	2311.4	2087.2	1319.6	1205.4	671.0
77.5°	89.4	96.1	145.8	222.2	231.7	484.7	1245.1	910.6	407.8	359.8	182.0
80°	60.7	68.2	106.0	116.2	79.2	135.2	467.3	243.1	82.4	78.8	39.0
82.5°	29.6	37.4	78.4	65.0	34.3	43.3	135.9	52.0	24.0	22.5	13.8
85°	4.3	7.5	44.1	42.6	15.4	10.2	24.0	13.0	8.3	7.9	6.3
87.5°	0.0	0.0	15.0	6.7	1.6	1.6	2.8	2.8	3.2	2.8	3.2
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°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1028.8	1030.8	1023.3	1012.7	1001.2	989.8	973.7	959.1	950.4	955.5	942.9
5°	1047.3	1045.8	1026.1	993.8	950.8	899.2	848.0	804.2	790.0	768.8	766.4
7.5°	1073.0	1068.6	1026.9	952.8	855.8	758.9	664.3	601.7	565.8	535.5	536.3
10°	1108.8	1096.2	1017.8	880.7	721.1	574.9	454.3	371.6	335.7	324.3	315.2
12.5°	1145.9	1121.4	992.6	783.3	561.5	392.9	276.2	225.8	203.7	196.6	195.8
15°	1179.0	1140.3	948.4	666.3	408.2	251.0	188.3	171.8	169.0	169.4	169.0
17.5°	1211.7	1155.3	887.4	542.2	277.4	180.1	161.9	158.0	159.2	160.8	160.4
20°	1238.8	1158.5	809.3	413.7	196.2	158.0	152.1	151.3	152.5	153.7	153.7
22.5°	1268.4	1160.8	716.7	286.5	160.4	147.0	143.8	143.8	145.4	147.0	147.4
25°	1290.5	1147.8	606.0	205.7	141.5	136.3	134.8	135.2	136.7	137.5	137.1
27.5°	1294.0	1111.2	488.6	157.6	128.5	123.3	121.8	123.3	121.4	122.5	121.8
30°	1297.2	1064.7	369.6	132.8	116.6	108.8	106.4	104.0	102.4	100.5	100.1
32.5°	1307.0	1009.9	269.9	119.4	105.6	96.9	91.4	84.7	79.6	78.0	77.6
35°	1311.3	944.1	198.2	108.8	95.8	86.3	76.4	67.0	59.5	56.7	58.7
37.5°	1327.9	880.3	153.7	100.9	87.1	75.3	62.7	50.8	43.7	42.2	42.9
40°	1361.8	810.9	128.8	94.2	79.6	65.0	49.6	38.2	33.5	31.9	31.5
42.5°	1416.2	742.0	114.7	87.9	72.1	54.8	39.0	29.9	26.0	24.8	24.8
45°	1482.4	675.8	104.8	81.2	64.2	44.1	30.7	24.0	21.7	20.9	20.9
47.5°	1569.4	617.8	96.5	74.5	55.6	35.1	24.8	20.9	19.3	19.7	20.1
50°	1657.7	574.9	87.5	67.0	45.7	28.8	21.3	18.5	18.1	18.5	18.5
52.5°	1724.3	549.7	75.3	56.7	35.9	24.0	18.9	17.3	16.9	16.2	16.2
55°	1814.1	544.2	59.9	46.1	28.4	20.1	16.9	15.8	14.6	13.8	13.4
57.5°	1929.6	550.5	46.1	35.9	22.1	16.5	15.0	13.0	11.4	9.9	9.9
60°	2001.3	536.3	35.9	27.6	16.2	13.4	11.4	9.5	7.5	6.3	5.9
62.5°	1978.4	476.4	28.4	20.5	11.4	9.9	7.5	6.3	4.3	3.2	2.8
65°	1860.6	384.6	22.9	14.2	8.3	5.9	3.9	3.9	2.0	0.4	0.0
67.5°	1628.5	284.9	18.1	9.5	4.7	2.8	2.0	1.2	0.0	0.0	0.0
70°	1325.5	205.7	14.2	5.9	2.8	2.0	0.8	0.4	0.0	0.0	0.0
72.5°	841.7	117.8	11.0	3.5	2.0	0.8	0.0	0.0	0.0	0.0	0.0
75°	325.5	46.1	7.5	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	92.2	21.7	4.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.0	9.5	2.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.4	0.0	0.0	0.0	0.0	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)