

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: P594764

Luminaire Tested: **ISS-PA1D-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1D-830-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5113 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

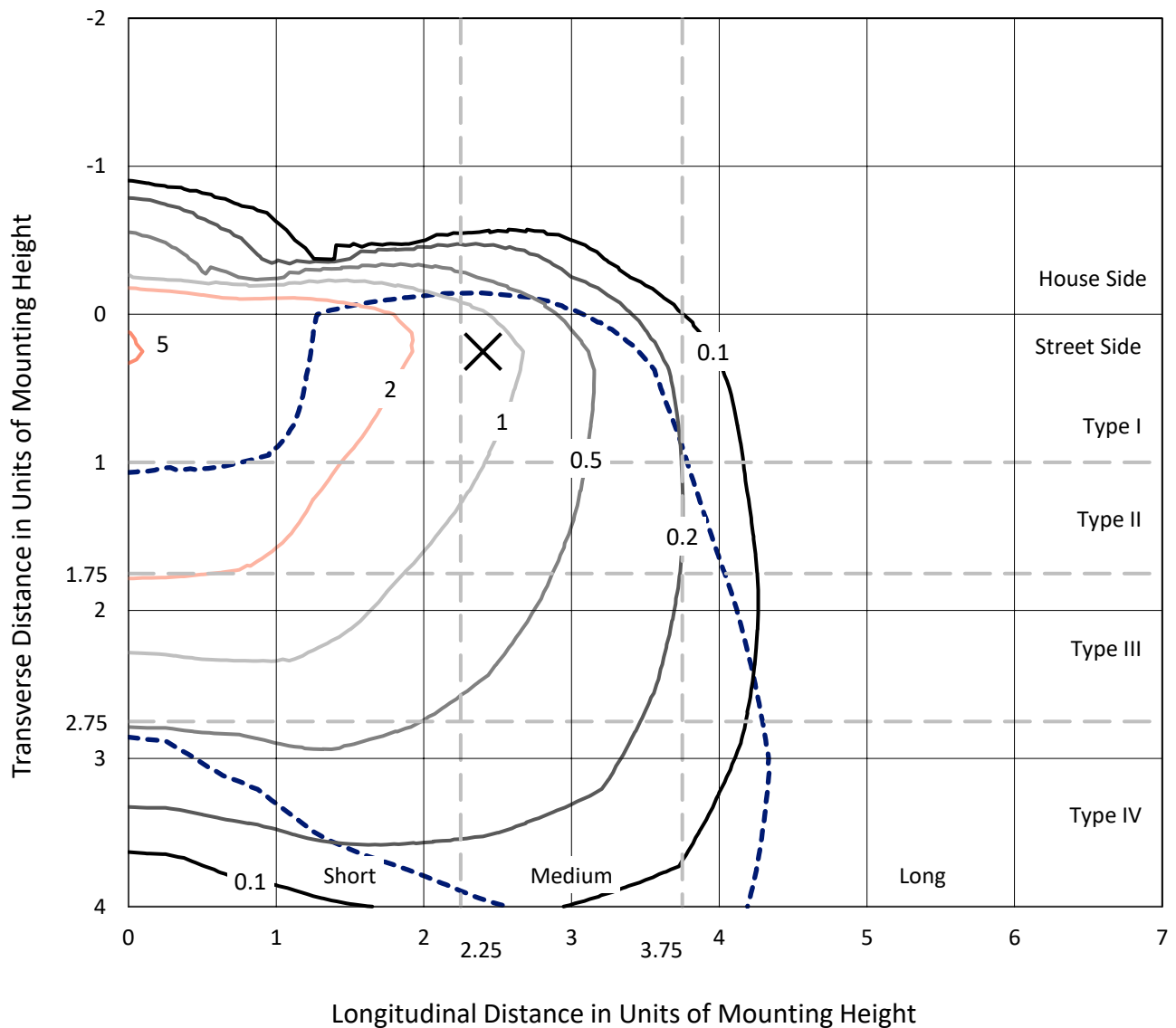
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

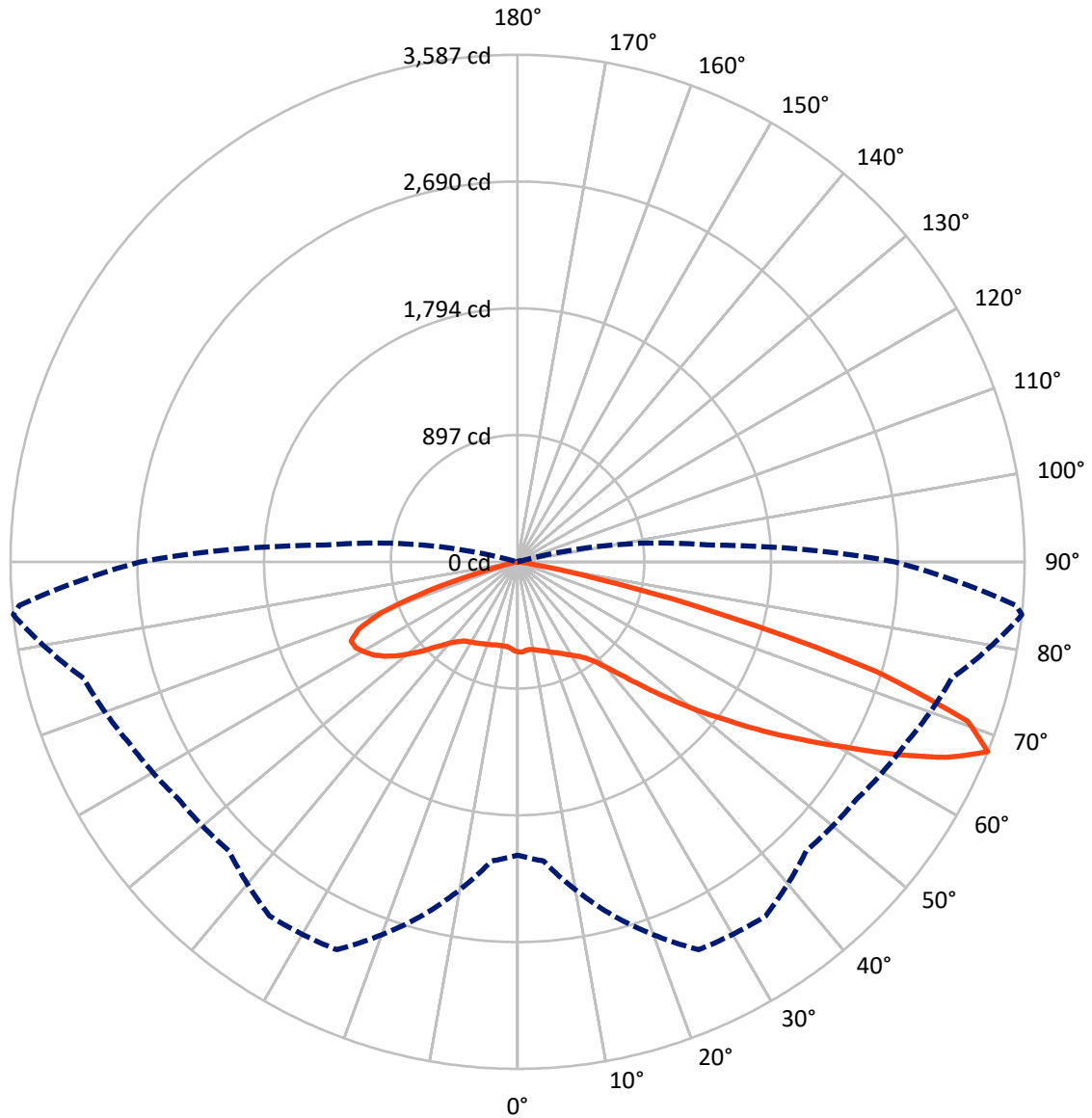
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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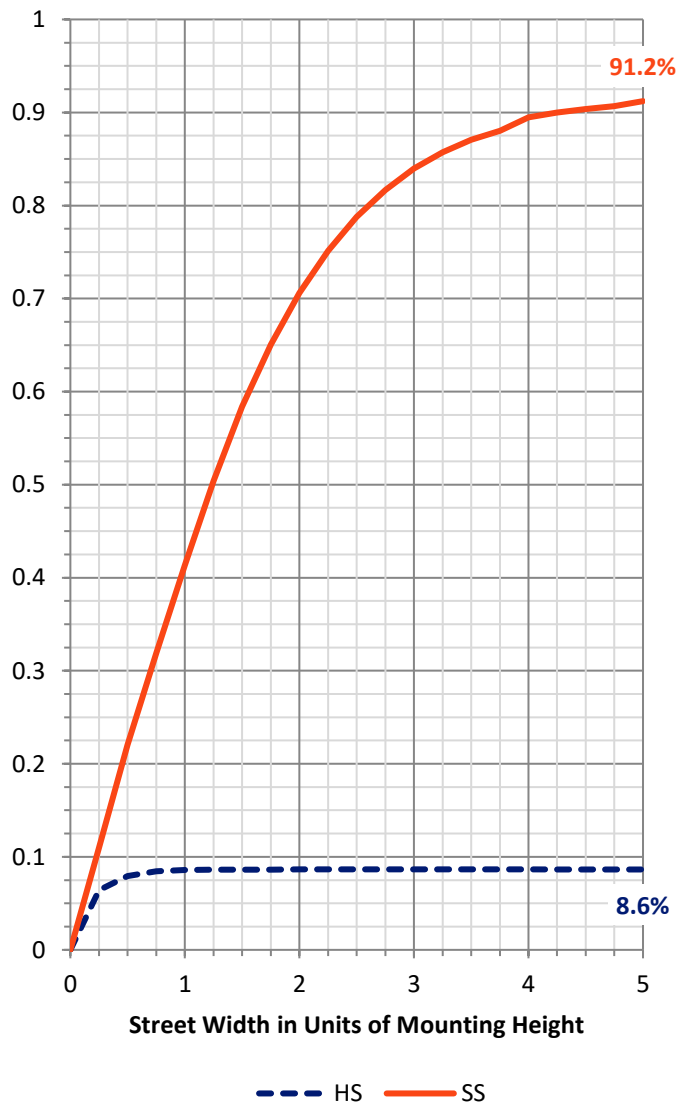
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	445.2	0.0	445.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	4667.8	0.0	4667.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	5113.0	0.0	5113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.1
10°-20°	149.4	2.9
20°-30°	239.3	4.7
30°-40°	344.3	6.7
40°-50°	591.0	11.6
50°-60°	1032.6	20.2
60°-70°	1478.7	28.9
70°-80°	1111.4	21.7
80°-90°	109.1	2.1
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°	5113.0	100.0
0°-180°	5113.0	100.0

Coefficient of Utilization



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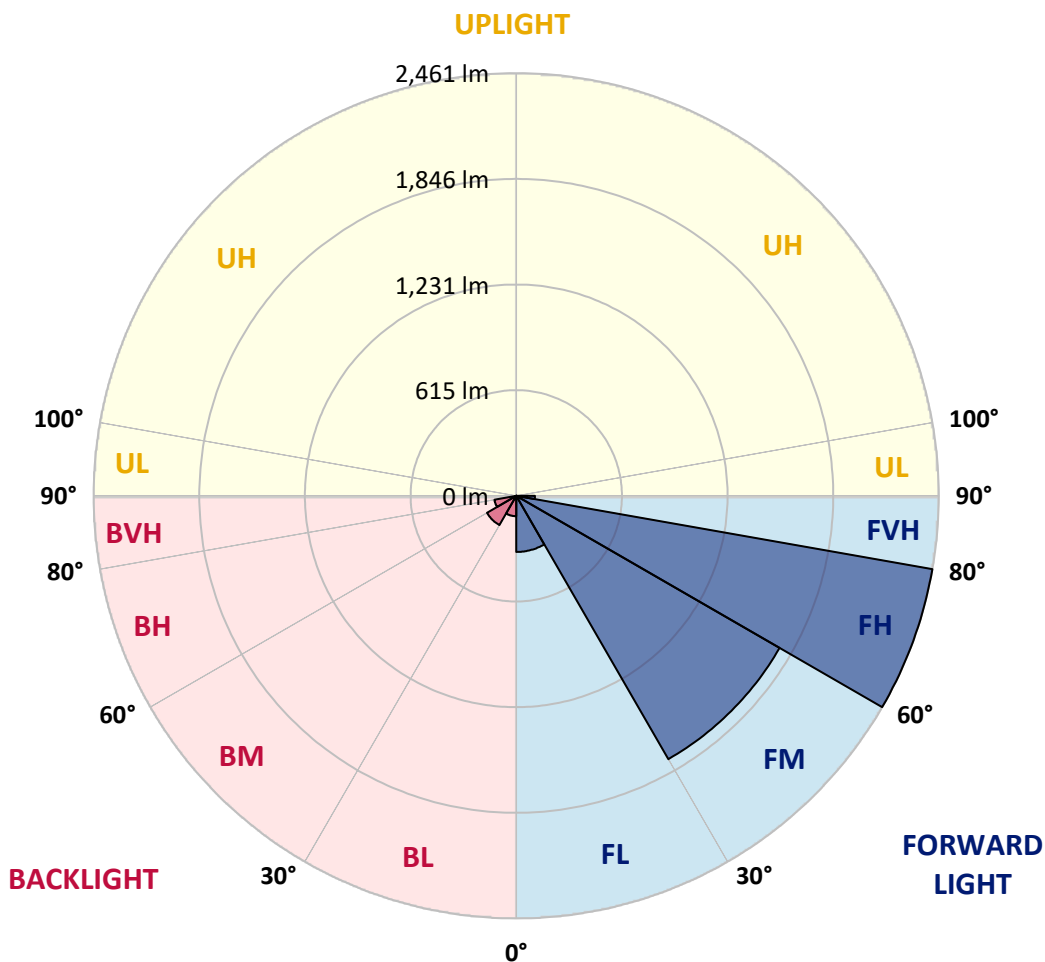
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.9	6.4			
FM (30°-60°)	1771.1	34.6			
FH (60°-80°)	2461.1	48.1			G2/5000
FVH (80°-90°)	108.7	2.1			G2/225
BL (0°-30°)	118.9	2.3	B1/500		
BM (30°-60°)	196.9	3.9	B0/220		
BH (60°-80°)	129.1	2.5	B1/500		G1/500
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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
2.5°	673.3	676.7	678.5	669.8	669.8	662.9	652.6	649.1	643.9	638.7	637.0
5°	707.8	713.0	711.3	700.9	695.7	681.9	668.1	654.3	640.5	628.4	628.4
7.5°	747.5	749.2	744.1	726.8	716.4	697.4	676.7	661.2	643.9	626.7	623.2
10°	782.0	780.3	773.4	756.1	737.1	713.0	690.5	673.3	652.6	631.8	630.1
12.5°	806.2	807.9	799.3	775.1	756.1	728.5	706.1	688.8	664.6	642.2	637.0
15°	826.9	832.1	821.7	797.6	769.9	745.8	728.5	706.1	678.5	652.6	649.1
17.5°	845.9	847.6	839.0	811.4	785.5	764.8	745.8	725.1	697.4	664.6	661.2
20°	856.3	861.4	856.3	821.7	797.6	782.0	766.5	745.8	714.7	683.6	680.2
22.5°	863.2	868.3	866.6	828.6	807.9	795.8	782.0	763.0	733.7	697.4	694.0
25°	866.6	870.1	873.5	835.5	818.3	813.1	801.0	783.8	756.1	718.2	714.7
27.5°	871.8	875.3	878.7	844.2	837.3	832.1	828.6	814.8	782.0	742.3	737.1
30°	880.4	885.6	889.1	859.7	859.7	864.9	864.9	845.9	809.7	768.2	764.8
32.5°	890.8	892.5	899.4	875.3	883.9	896.0	892.5	873.5	835.5	797.6	792.4
35°	918.4	918.4	930.5	899.4	909.8	920.1	923.6	909.8	875.3	837.3	835.5
37.5°	985.7	985.7	996.1	946.0	944.3	954.7	966.7	966.7	932.2	897.7	894.2
40°	1137.7	1137.7	1137.7	1022.0	1003.0	1015.1	1034.1	1044.4	1015.1	990.9	990.9
42.5°	1391.4	1393.2	1367.3	1161.8	1080.7	1101.4	1122.1	1144.6	1129.0	1111.8	1108.3
45°	1653.8	1645.2	1641.7	1367.3	1218.8	1208.4	1234.3	1272.3	1277.5	1267.1	1274.0
47.5°	1833.4	1842.0	1847.2	1622.8	1412.1	1341.4	1365.5	1419.0	1450.1	1448.4	1458.8
50°	2007.7	2012.9	2018.1	1904.1	1667.6	1508.8	1524.4	1596.9	1640.0	1653.8	1660.7
52.5°	2159.6	2145.8	2168.3	2152.7	1938.7	1700.4	1700.4	1783.3	1861.0	1866.2	1864.4
55°	2204.5	2213.2	2280.5	2327.1	2216.6	1935.2	1900.7	1988.7	2071.6	2114.8	2114.8
57.5°	2304.7	2313.3	2394.4	2499.7	2418.6	2166.6	2114.8	2201.1	2290.8	2373.7	2385.8
60°	2435.9	2437.6	2523.9	2684.5	2572.2	2375.4	2332.3	2430.7	2520.5	2662.0	2701.7
62.5°	2506.6	2513.5	2632.7	2843.3	2765.6	2558.4	2548.1	2637.8	2753.5	3002.1	3038.4
65°	2397.9	2442.8	2701.7	2938.2	2922.7	2729.3	2765.6	2838.1	2971.0	3335.3	3369.8
67.5°	2075.1	2125.1	2587.8	3028.0	3059.1	2889.9	2927.9	3033.2	3179.9	3587.3	3539.0
70°	1911.1	1952.5	2311.6	3078.1	3173.0	3069.4	3086.7	3185.1	3228.2	3376.7	3324.9
72.5°	1448.4	1491.6	1955.9	2907.2	3271.4	3257.6	3214.4	3133.3	2877.8	2656.8	2530.8
75°	640.5	690.5	1301.7	2271.9	3028.0	3364.6	3136.8	2682.7	2066.4	1508.8	1398.3
77.5°	283.1	312.5	504.1	1262.0	2275.3	2912.3	2480.7	1788.5	1037.5	561.1	521.4
80°	91.5	94.9	158.8	441.9	1163.6	1928.3	1519.2	859.7	319.4	131.2	122.6
82.5°	36.3	39.7	76.0	186.4	481.6	766.5	745.8	310.7	93.2	34.5	34.5
85°	10.4	12.1	38.0	98.4	170.9	215.8	264.1	103.6	50.1	10.4	10.4
87.5°	3.5	3.5	13.8	31.1	32.8	22.4	50.1	39.7	31.1	3.5	3.5
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°	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0	637.0
2.5°	633.6	630.1	621.5	614.6	611.1	605.9	599.0	595.6	595.6	593.9	588.7
5°	621.5	616.3	600.8	590.4	581.8	562.8	549.0	531.7	514.4	509.3	514.4
7.5°	616.3	605.9	585.2	564.5	528.3	478.2	445.4	409.1	397.1	381.5	383.2
10°	618.0	605.9	576.6	530.0	459.2	385.0	333.2	284.8	260.7	248.6	250.3
12.5°	623.2	609.4	568.0	483.4	381.5	291.8	212.3	174.4	167.5	167.5	167.5
15°	633.6	612.8	554.2	428.1	298.7	193.3	150.2	146.7	151.9	157.1	158.8
17.5°	643.9	623.2	533.4	371.2	217.5	145.0	139.8	139.8	145.0	150.2	151.9
20°	656.0	633.6	504.1	310.7	155.4	136.4	134.7	132.9	136.4	141.6	143.3
22.5°	675.0	643.9	469.6	240.0	134.7	131.2	127.7	126.0	127.7	132.9	134.7
25°	692.3	657.7	433.3	177.8	126.0	122.6	120.8	119.1	119.1	122.6	124.3
27.5°	713.0	673.3	393.6	132.9	115.7	113.9	112.2	110.5	108.8	112.2	113.9
30°	738.9	687.1	350.4	112.2	105.3	103.6	101.9	100.1	98.4	100.1	101.9
32.5°	771.7	706.1	300.4	101.9	96.7	91.5	89.8	89.8	88.0	88.0	89.8
35°	814.8	726.8	246.9	94.9	88.0	82.9	77.7	76.0	76.0	76.0	77.7
37.5°	878.7	764.8	195.1	88.0	81.1	72.5	67.3	62.1	62.1	62.1	62.1
40°	966.7	806.2	151.9	82.9	76.0	63.9	57.0	50.1	46.6	44.9	46.6
42.5°	1103.1	868.3	117.4	76.0	72.5	57.0	46.6	38.0	31.1	29.3	31.1
45°	1253.3	935.7	93.2	70.8	65.6	48.3	36.3	25.9	19.0	17.3	19.0
47.5°	1443.2	1020.3	79.4	63.9	57.0	39.7	25.9	13.8	8.6	10.4	10.4
50°	1626.2	1103.1	72.5	58.7	50.1	32.8	15.5	6.9	3.5	5.2	5.2
52.5°	1828.2	1191.2	67.3	51.8	43.2	24.2	8.6	1.7	0.0	1.7	1.7
55°	2031.9	1270.6	62.1	46.6	34.5	17.3	3.5	0.0	0.0	0.0	1.7
57.5°	2252.9	1337.9	57.0	39.7	25.9	10.4	1.7	0.0	0.0	0.0	0.0
60°	2437.6	1389.7	51.8	34.5	17.3	5.2	0.0	0.0	0.0	0.0	0.0
62.5°	2606.8	1436.3	39.7	25.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
65°	2719.0	1446.7	27.6	17.3	6.9	1.7	0.0	0.0	0.0	0.0	0.0
67.5°	2668.9	1356.9	17.3	12.1	3.5	1.7	0.0	0.0	0.0	0.0	0.0
70°	2346.1	1139.4	12.1	6.9	1.7	1.7	0.0	0.0	0.0	0.0	0.0
72.5°	1641.7	735.4	10.4	5.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0
75°	866.6	265.9	6.9	3.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	307.3	58.7	3.5	1.7	0.0	1.7	0.0	0.0	0.0	0.0	0.0
80°	67.3	12.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.0	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)