

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: P594692

Luminaire Tested: **ISS-PA1D-722-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594692  
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-722-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2200K, 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: 4730 lumens  
Efficiency: N/A  
Efficacy: 75.1 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

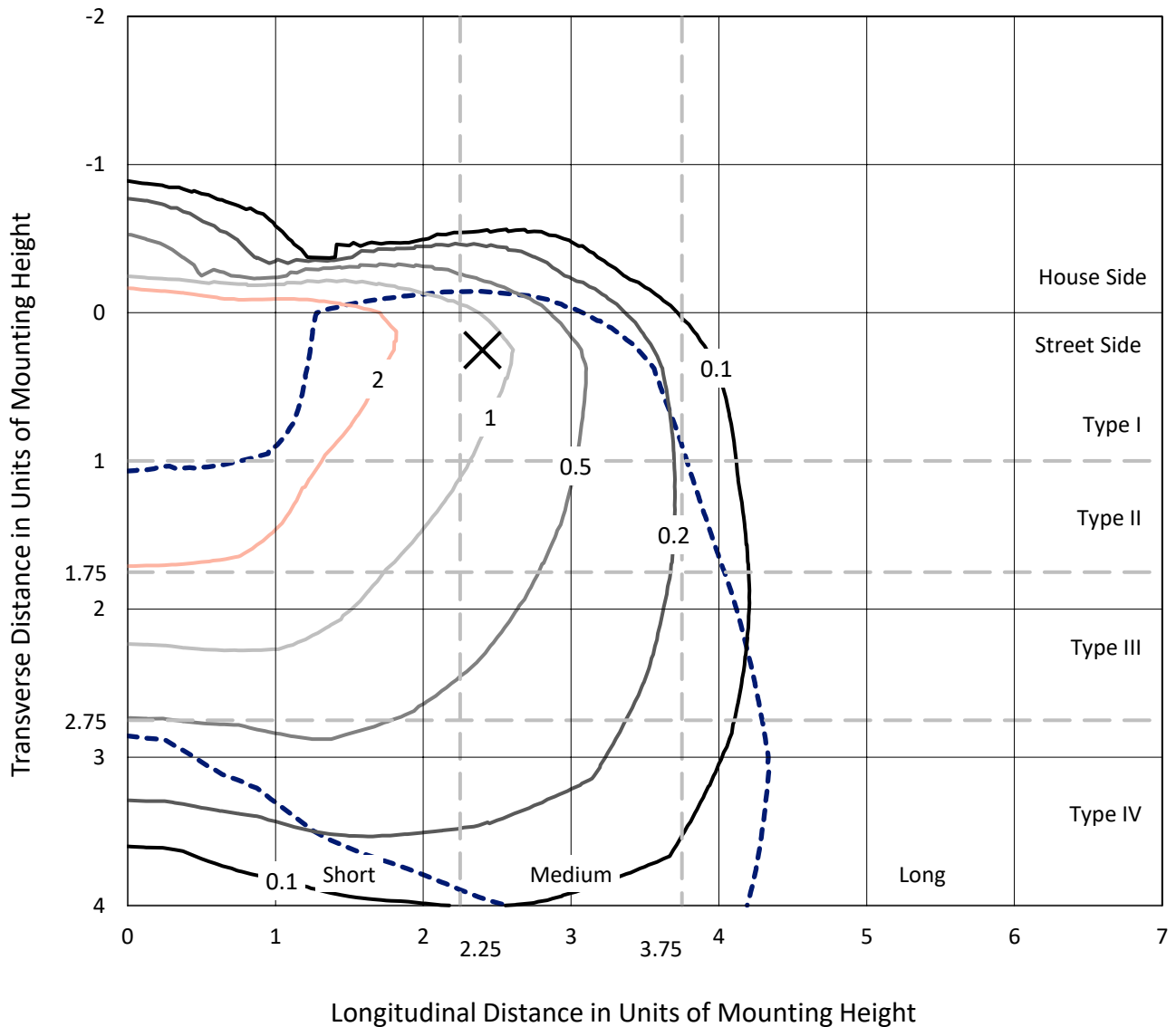
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

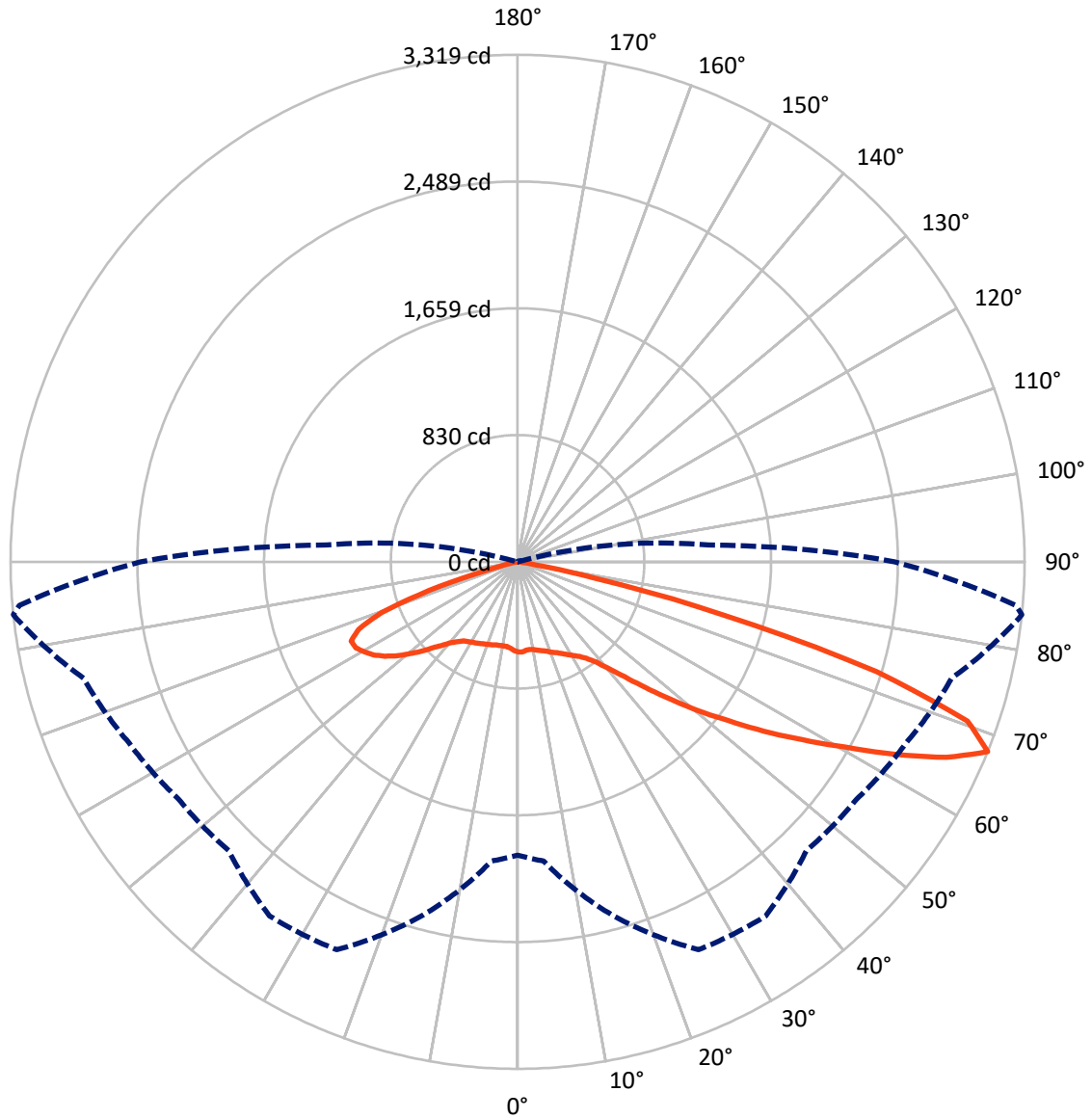
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 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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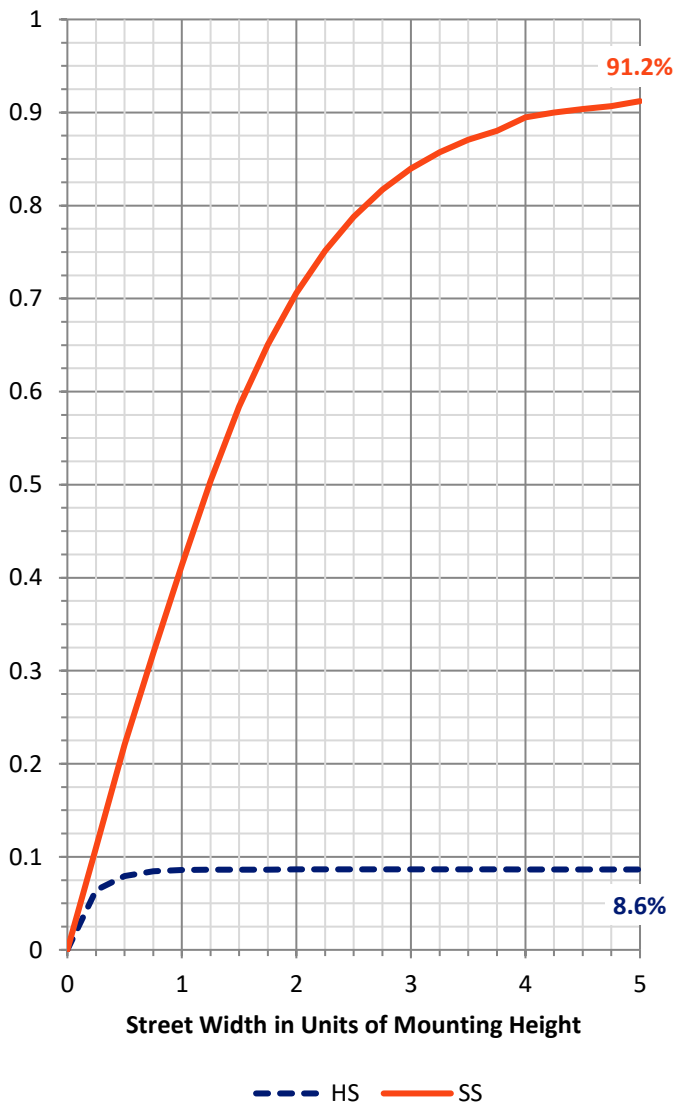
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	411.8	0.0	411.8
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4318.2	0.0	4318.2
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	4730.0	0.0	4730.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	1.1
10°-20°	138.2	2.9
20°-30°	221.4	4.7
30°-40°	318.5	6.7
40°-50°	546.8	11.6
50°-60°	955.3	20.2
60°-70°	1368.0	28.9
70°-80°	1028.2	21.7
80°-90°	100.9	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°	4730.0	100.0
0°-180°	4730.0	100.0

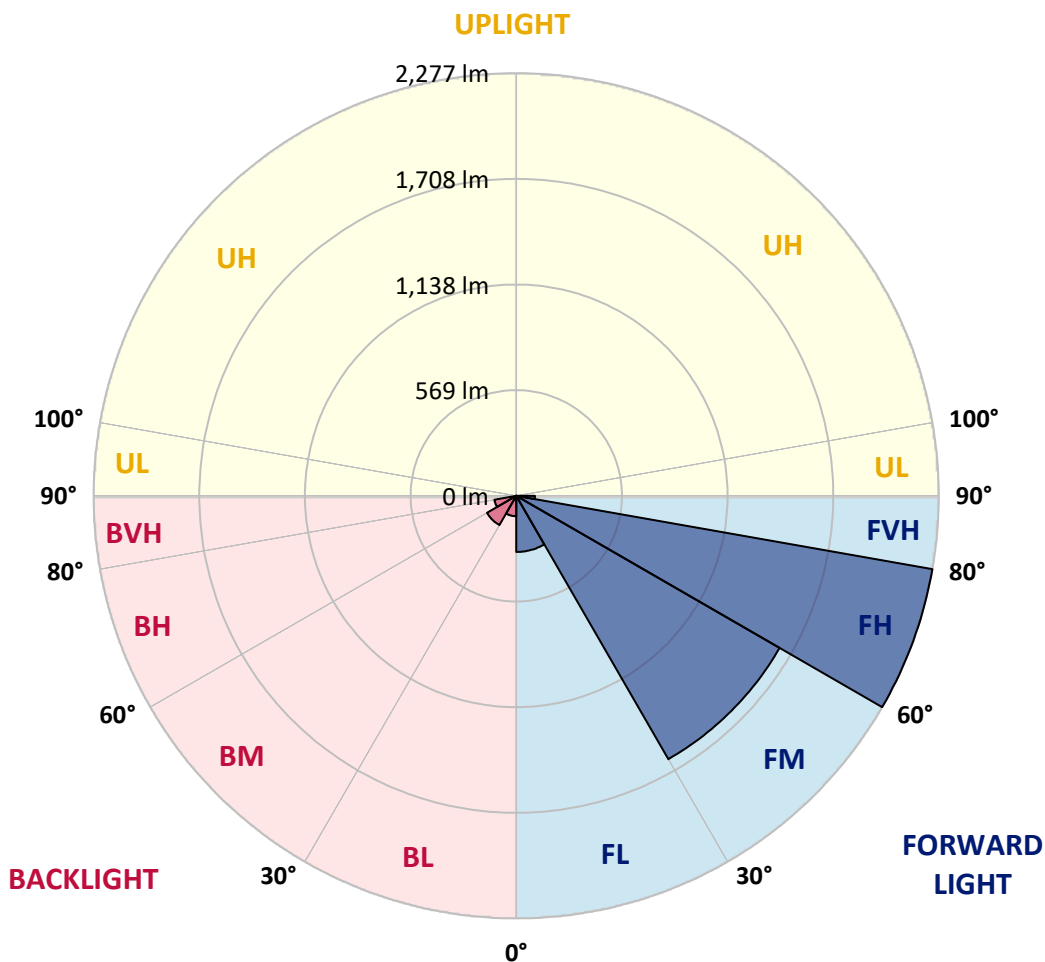


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.4	6.4			
FM (30°-60°)	1638.4	34.6			
FH (60°-80°)	2276.8	48.1			G2/5000
FVH (80°-90°)	100.6	2.1			G2/225
BL (0°-30°)	110.0	2.3	B0/110		
BM (30°-60°)	182.1	3.9	B0/220		
BH (60°-80°)	119.4	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°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
2.5°	622.8	626.0	627.6	619.6	619.6	613.3	603.7	600.5	595.7	590.9	589.3
5°	654.8	659.6	658.0	648.4	643.6	630.8	618.0	605.3	592.5	581.3	581.3
7.5°	691.5	693.1	688.3	672.3	662.8	645.2	626.0	611.7	595.7	579.7	576.5
10°	723.5	721.9	715.5	699.5	681.9	659.6	638.8	622.8	603.7	584.5	582.9
12.5°	745.8	747.4	739.4	717.1	699.5	673.9	653.2	637.2	614.9	594.1	589.3
15°	765.0	769.8	760.2	737.8	712.3	689.9	673.9	653.2	627.6	603.7	600.5
17.5°	782.5	784.1	776.2	750.6	726.6	707.5	689.9	670.7	645.2	614.9	611.7
20°	792.1	796.9	792.1	760.2	737.8	723.5	709.1	689.9	661.2	632.4	629.2
22.5°	798.5	803.3	801.7	766.6	747.4	736.2	723.5	705.9	678.7	645.2	642.0
25°	801.7	804.9	808.1	773.0	757.0	752.2	741.0	725.0	699.5	664.4	661.2
27.5°	806.5	809.7	812.9	780.9	774.6	769.8	766.6	753.8	723.5	686.7	681.9
30°	814.5	819.3	822.5	795.3	795.3	800.1	800.1	782.5	749.0	710.7	707.5
32.5°	824.1	825.7	832.0	809.7	817.7	828.9	825.7	808.1	773.0	737.8	733.0
35°	849.6	849.6	860.8	832.0	841.6	851.2	854.4	841.6	809.7	774.6	773.0
37.5°	911.9	911.9	921.5	875.2	873.6	883.2	894.3	894.3	862.4	830.5	827.3
40°	1052.4	1052.4	1052.4	945.4	927.9	939.0	956.6	966.2	939.0	916.7	916.7
42.5°	1287.2	1288.8	1264.8	1074.8	999.7	1018.9	1038.1	1058.8	1044.5	1028.5	1025.3
45°	1529.9	1522.0	1518.8	1264.8	1127.5	1117.9	1141.9	1177.0	1181.8	1172.2	1178.6
47.5°	1696.0	1704.0	1708.8	1501.2	1306.4	1240.9	1263.2	1312.8	1341.5	1339.9	1349.5
50°	1857.3	1862.1	1866.9	1761.5	1542.7	1395.8	1410.2	1477.2	1517.2	1529.9	1536.3
52.5°	1997.9	1985.1	2005.9	1991.5	1793.5	1573.1	1573.1	1649.7	1721.6	1726.4	1724.8
55°	2039.4	2047.4	2109.7	2152.8	2050.6	1790.3	1758.3	1839.8	1916.4	1956.4	1956.4
57.5°	2132.0	2140.0	2215.1	2312.5	2237.4	2004.3	1956.4	2036.2	2119.2	2195.9	2207.1
60°	2253.4	2255.0	2334.8	2483.4	2379.6	2197.5	2157.6	2248.6	2331.7	2462.6	2499.3
62.5°	2318.9	2325.3	2435.5	2630.3	2558.4	2366.8	2357.2	2440.2	2547.2	2777.2	2810.8
65°	2218.3	2259.8	2499.3	2718.1	2703.8	2524.9	2558.4	2625.5	2748.5	3085.4	3117.4
67.5°	1919.6	1965.9	2393.9	2801.2	2829.9	2673.4	2708.5	2806.0	2941.7	3318.6	3273.9
70°	1767.9	1806.2	2138.4	2847.5	2935.3	2839.5	2855.5	2946.5	2986.4	3123.8	3075.9
72.5°	1339.9	1379.8	1809.4	2689.4	3026.4	3013.6	2973.7	2898.6	2662.2	2457.8	2341.2
75°	592.5	638.8	1204.2	2101.7	2801.2	3112.6	2901.8	2481.8	1911.6	1395.8	1293.6
77.5°	261.9	289.1	466.3	1167.4	2104.9	2694.2	2294.9	1654.5	959.8	519.0	482.3
80°	84.6	87.8	146.9	408.8	1076.4	1783.9	1405.4	795.3	295.4	121.4	113.4
82.5°	33.5	36.7	70.3	172.5	445.6	709.1	689.9	287.5	86.2	31.9	31.9
85°	9.6	11.2	35.1	91.0	158.1	199.6	244.3	95.8	46.3	9.6	9.6
87.5°	3.2	3.2	12.8	28.7	30.3	20.8	46.3	36.7	28.7	3.2	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°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
2.5°	586.1	582.9	574.9	568.5	565.3	560.6	554.2	551.0	551.0	549.4	544.6
5°	574.9	570.1	555.8	546.2	538.2	520.6	507.9	491.9	475.9	471.1	475.9
7.5°	570.1	560.6	541.4	522.2	488.7	442.4	412.0	378.5	367.3	352.9	354.5
10°	571.7	560.6	533.4	490.3	424.8	356.1	308.2	263.5	241.2	230.0	231.6
12.5°	576.5	563.7	525.4	447.2	352.9	269.9	196.4	161.3	154.9	154.9	154.9
15°	586.1	566.9	512.6	396.1	276.3	178.9	138.9	135.7	140.5	145.3	146.9
17.5°	595.7	576.5	493.5	343.4	201.2	134.1	129.4	129.4	134.1	138.9	140.5
20°	606.9	586.1	466.3	287.5	143.7	126.2	124.6	123.0	126.2	131.0	132.6
22.5°	624.4	595.7	434.4	222.0	124.6	121.4	118.2	116.6	118.2	123.0	124.6
25°	640.4	608.5	400.9	164.5	116.6	113.4	111.8	110.2	110.2	113.4	115.0
27.5°	659.6	622.8	364.1	123.0	107.0	105.4	103.8	102.2	100.6	103.8	105.4
30°	683.5	635.6	324.2	103.8	97.4	95.8	94.2	92.6	91.0	92.6	94.2
32.5°	713.9	653.2	277.9	94.2	89.4	84.6	83.0	83.0	81.4	81.4	83.0
35°	753.8	672.3	228.4	87.8	81.4	76.7	71.9	70.3	70.3	70.3	71.9
37.5°	812.9	707.5	180.5	81.4	75.1	67.1	62.3	57.5	57.5	57.5	57.5
40°	894.3	745.8	140.5	76.7	70.3	59.1	52.7	46.3	43.1	41.5	43.1
42.5°	1020.5	803.3	108.6	70.3	67.1	52.7	43.1	35.1	28.7	27.1	28.7
45°	1159.4	865.6	86.2	65.5	60.7	44.7	33.5	24.0	17.6	16.0	17.6
47.5°	1335.1	943.8	73.5	59.1	52.7	36.7	24.0	12.8	8.0	9.6	9.6
50°	1504.4	1020.5	67.1	54.3	46.3	30.3	14.4	6.4	3.2	4.8	4.8
52.5°	1691.2	1101.9	62.3	47.9	39.9	22.4	8.0	1.6	0.0	1.6	1.6
55°	1879.7	1175.4	57.5	43.1	31.9	16.0	3.2	0.0	0.0	0.0	1.6
57.5°	2084.1	1237.7	52.7	36.7	24.0	9.6	1.6	0.0	0.0	0.0	0.0
60°	2255.0	1285.6	47.9	31.9	16.0	4.8	0.0	0.0	0.0	0.0	0.0
62.5°	2411.5	1328.7	36.7	24.0	9.6	3.2	0.0	0.0	0.0	0.0	0.0
65°	2515.3	1338.3	25.6	16.0	6.4	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2469.0	1255.3	16.0	11.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
70°	2170.4	1054.0	11.2	6.4	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1518.8	680.3	9.6	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	801.7	245.9	6.4	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	284.3	54.3	3.2	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	62.3	11.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)