

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: P594728

Luminaire Tested: **ISS-PA1D-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594728
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-740-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 6434 lumens
Efficiency: N/A
Efficacy: 102.1 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

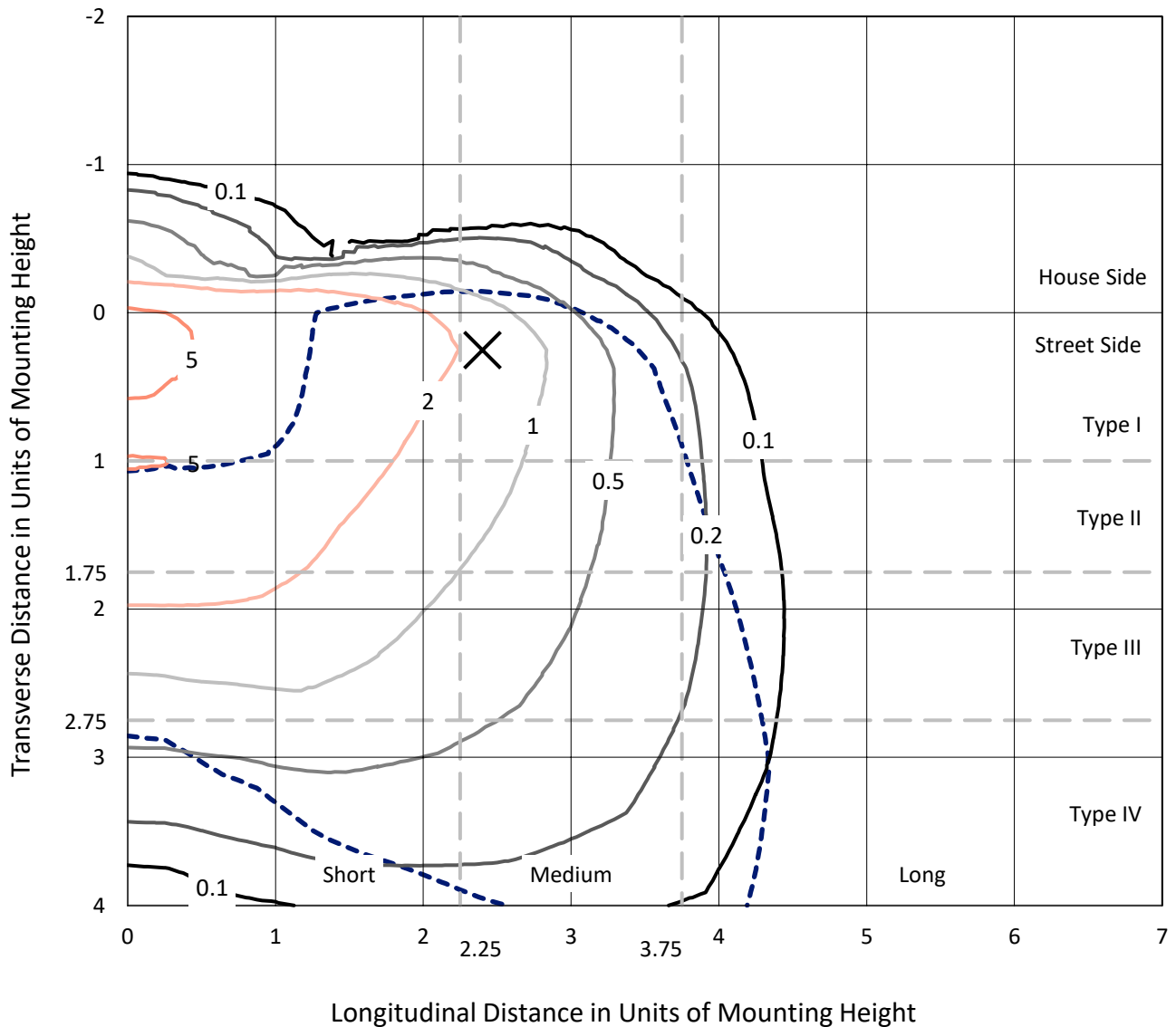
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

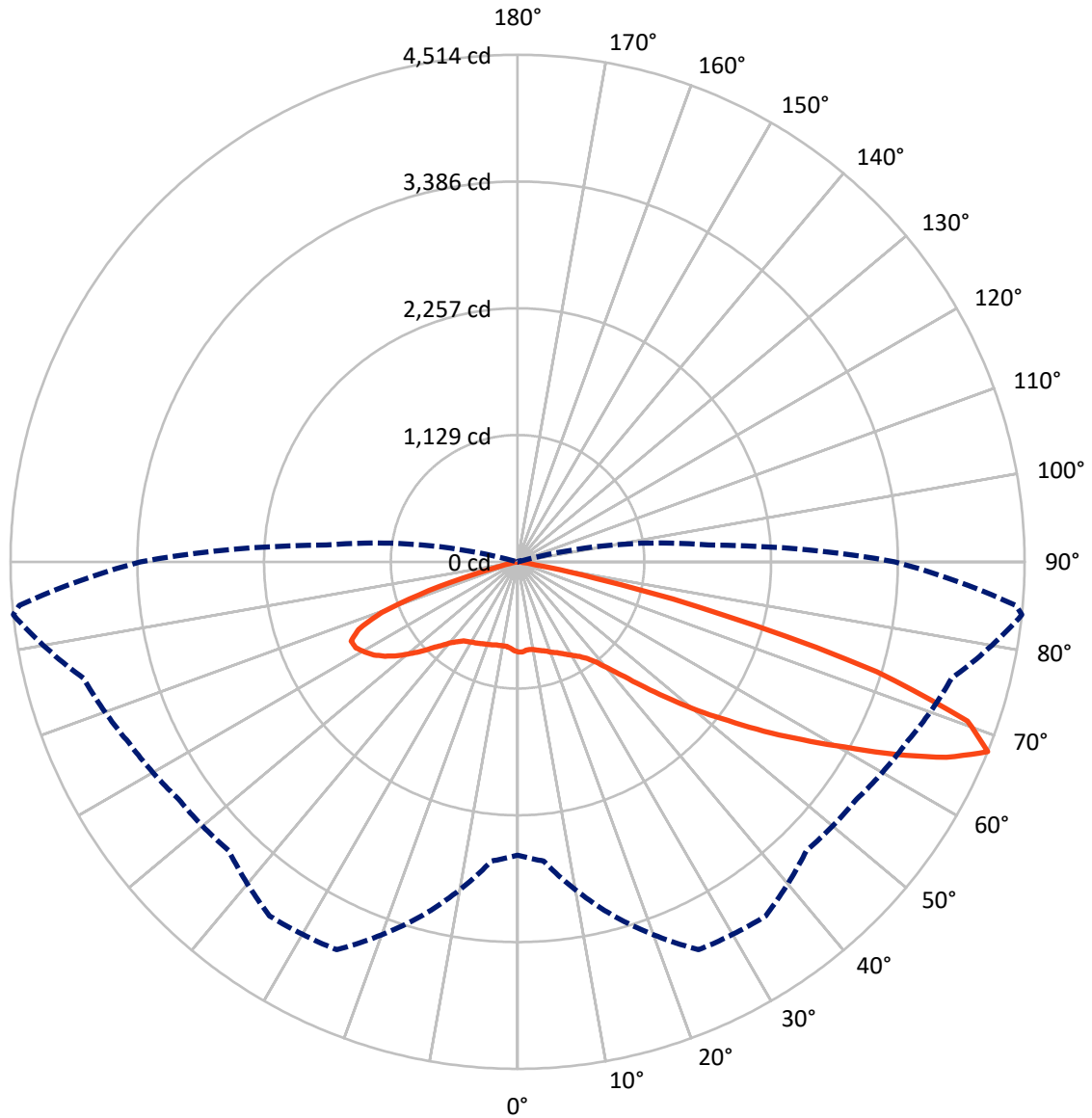
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 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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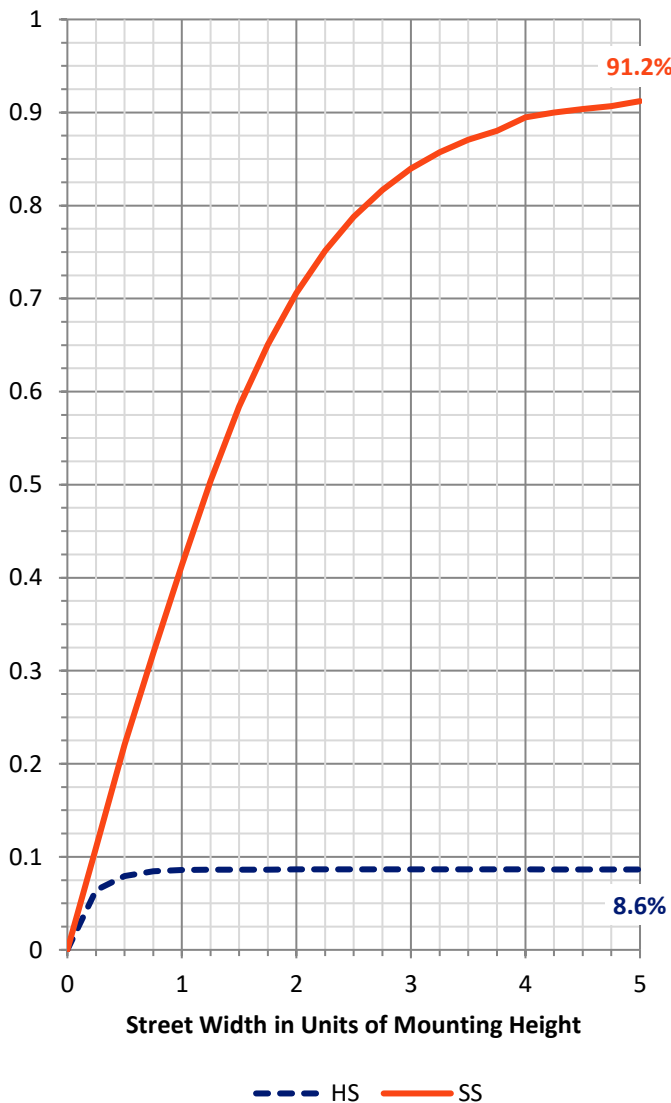
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.2	0.0	560.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	5873.8	0.0	5873.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	6434.0	0.0	6434.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.1
10°-20°	188.0	2.9
20°-30°	301.1	4.7
30°-40°	433.3	6.7
40°-50°	743.7	11.6
50°-60°	1299.4	20.2
60°-70°	1860.8	28.9
70°-80°	1398.6	21.7
80°-90°	137.3	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°	6434.0	100.0
0°-180°	6434.0	100.0

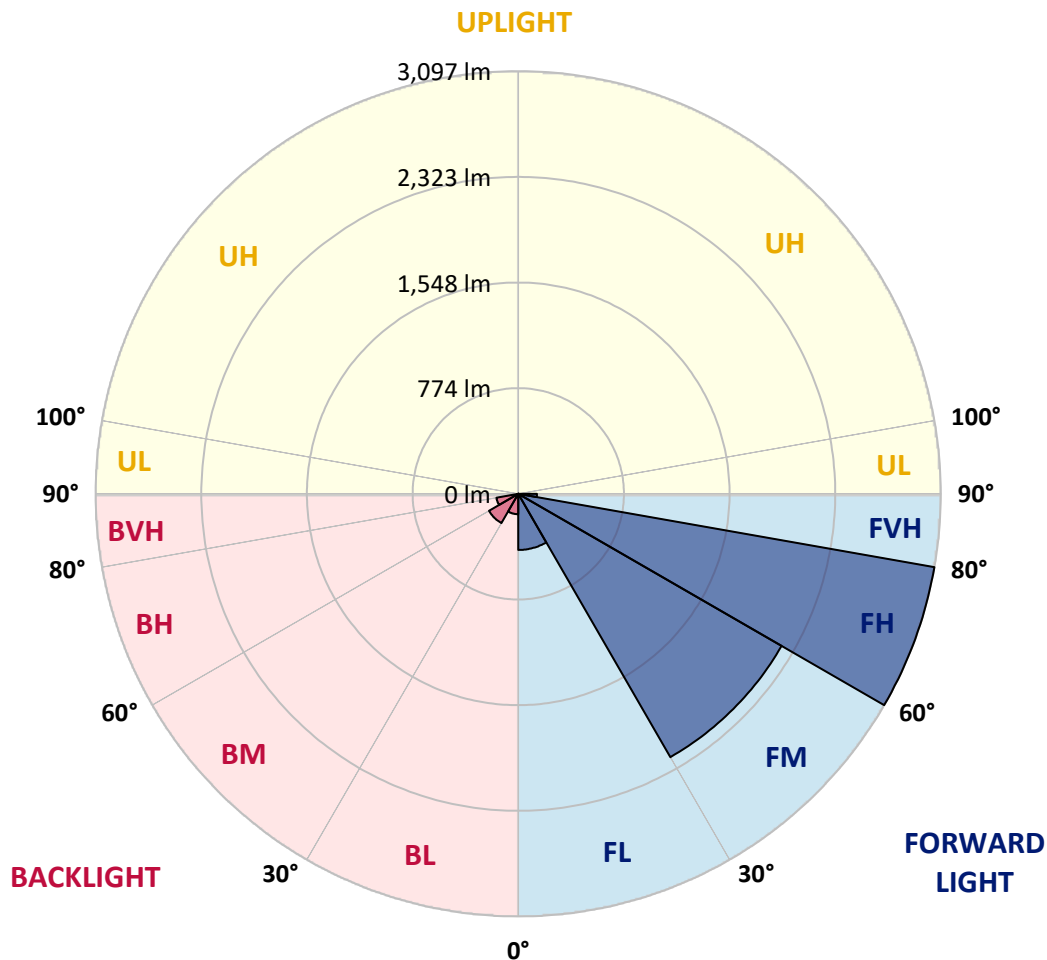


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.3	6.4			
FM (30°-60°)	2228.7	34.6			
FH (60°-80°)	3097.0	48.1			G2/5000
FVH (80°-90°)	136.8	2.1			G2/225
BL (0°-30°)	149.6	2.3	B1/500		
BM (30°-60°)	247.7	3.9	B1/1000		
BH (60°-80°)	162.4	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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°	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
2.5°	847.2	851.6	853.7	842.9	842.9	834.2	821.2	816.8	810.3	803.8	801.6
5°	890.7	897.2	895.0	882.0	875.5	858.1	840.7	823.3	805.9	790.7	790.7
7.5°	940.6	942.8	936.3	914.6	901.5	877.6	851.6	832.0	810.3	788.6	784.2
10°	984.1	981.9	973.2	951.5	927.6	897.2	868.9	847.2	821.2	795.1	792.9
12.5°	1014.5	1016.7	1005.8	975.4	951.5	916.7	888.5	866.8	836.4	808.1	801.6
15°	1040.6	1047.1	1034.0	1003.6	968.9	938.5	916.7	888.5	853.7	821.2	816.8
17.5°	1064.5	1066.6	1055.8	1021.0	988.4	962.4	938.5	912.4	877.6	836.4	832.0
20°	1077.5	1084.0	1077.5	1034.0	1003.6	984.1	964.5	938.5	899.4	860.3	855.9
22.5°	1086.2	1092.7	1090.5	1042.7	1016.7	1001.5	984.1	960.2	923.3	877.6	873.3
25°	1090.5	1094.9	1099.2	1051.4	1029.7	1023.2	1008.0	986.2	951.5	903.7	899.4
27.5°	1097.0	1101.4	1105.7	1062.3	1053.6	1047.1	1042.7	1025.4	984.1	934.1	927.6
30°	1107.9	1114.4	1118.8	1081.8	1081.8	1088.3	1088.3	1064.5	1018.8	966.7	962.4
32.5°	1120.9	1123.1	1131.8	1101.4	1112.2	1127.5	1123.1	1099.2	1051.4	1003.6	997.1
35°	1155.7	1155.7	1170.9	1131.8	1144.8	1157.9	1162.2	1144.8	1101.4	1053.6	1051.4
37.5°	1240.4	1240.4	1253.4	1190.5	1188.3	1201.3	1216.5	1216.5	1173.1	1129.6	1125.3
40°	1431.6	1431.6	1431.6	1286.0	1262.1	1277.3	1301.2	1314.3	1277.3	1246.9	1246.9
42.5°	1750.9	1753.1	1720.5	1462.0	1359.9	1386.0	1412.0	1440.3	1420.7	1399.0	1394.7
45°	2081.1	2070.3	2065.9	1720.5	1533.7	1520.6	1553.2	1601.0	1607.5	1594.5	1603.2
47.5°	2307.0	2317.9	2324.4	2042.0	1777.0	1687.9	1718.3	1785.7	1824.8	1822.6	1835.6
50°	2526.4	2533.0	2539.5	2396.1	2098.5	1898.6	1918.2	2009.4	2063.7	2081.1	2089.8
52.5°	2717.6	2700.2	2728.5	2708.9	2439.6	2139.8	2139.8	2244.0	2341.8	2348.3	2346.1
55°	2774.1	2785.0	2869.7	2928.3	2789.3	2435.2	2391.8	2502.6	2606.8	2661.1	2661.1
57.5°	2900.1	2911.0	3013.1	3145.6	3043.5	2726.3	2661.1	2769.8	2882.7	2987.0	3002.2
60°	3065.2	3067.4	3176.0	3378.0	3236.8	2989.2	2934.9	3058.7	3171.6	3349.8	3399.7
62.5°	3154.3	3162.9	3312.8	3577.9	3480.1	3219.4	3206.4	3319.4	3464.9	3777.7	3823.3
65°	3017.4	3073.9	3399.7	3697.3	3677.8	3434.5	3480.1	3571.4	3738.6	4197.0	4240.4
67.5°	2611.2	2674.2	3256.4	3810.3	3849.4	3636.5	3684.3	3816.8	4001.5	4514.2	4453.3
70°	2404.8	2456.9	2908.8	3873.3	3992.8	3862.4	3884.2	4008.0	4062.3	4249.1	4184.0
72.5°	1822.6	1876.9	2461.3	3658.2	4116.6	4099.2	4044.9	3942.8	3621.3	3343.3	3184.7
75°	805.9	868.9	1638.0	2858.8	3810.3	4233.9	3947.2	3375.8	2600.3	1898.6	1759.6
77.5°	356.3	393.2	634.3	1588.0	2863.2	3664.8	3121.7	2250.6	1305.6	706.0	656.1
80°	115.1	119.5	199.9	556.1	1464.2	2426.5	1911.7	1081.8	401.9	165.1	154.2
82.5°	45.6	50.0	95.6	234.6	606.1	964.5	938.5	391.0	117.3	43.4	43.4
85°	13.0	15.2	47.8	123.8	215.1	271.5	332.4	130.3	63.0	13.0	13.0
87.5°	4.3	4.3	17.4	39.1	41.3	28.2	63.0	50.0	39.1	4.3	4.3
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°	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
2.5°	797.3	792.9	782.0	773.4	769.0	762.5	753.8	749.5	749.5	747.3	740.8
5°	782.0	775.5	756.0	742.9	732.1	708.2	690.8	669.1	647.4	640.8	647.4
7.5°	775.5	762.5	736.4	710.4	664.7	601.7	560.5	514.8	499.6	480.1	482.3
10°	777.7	762.5	725.6	666.9	577.8	484.4	419.3	358.4	328.0	312.8	315.0
12.5°	784.2	766.8	714.7	608.3	480.1	367.1	267.2	219.4	210.7	210.7	210.7
15°	797.3	771.2	697.3	538.7	375.8	243.3	189.0	184.7	191.2	197.7	199.9
17.5°	810.3	784.2	671.3	467.1	273.7	182.5	176.0	176.0	182.5	189.0	191.2
20°	825.5	797.3	634.3	391.0	195.5	171.6	169.4	167.3	171.6	178.1	180.3
22.5°	849.4	810.3	590.9	302.0	169.4	165.1	160.8	158.6	160.8	167.3	169.4
25°	871.1	827.7	545.3	223.8	158.6	154.2	152.1	149.9	149.9	154.2	156.4
27.5°	897.2	847.2	495.3	167.3	145.5	143.4	141.2	139.0	136.9	141.2	143.4
30°	929.8	864.6	441.0	141.2	132.5	130.3	128.2	126.0	123.8	126.0	128.2
32.5°	971.0	888.5	378.0	128.2	121.7	115.1	113.0	113.0	110.8	110.8	113.0
35°	1025.4	914.6	310.6	119.5	110.8	104.3	97.8	95.6	95.6	95.6	97.8
37.5°	1105.7	962.4	245.5	110.8	102.1	91.2	84.7	78.2	78.2	78.2	78.2
40°	1216.5	1014.5	191.2	104.3	95.6	80.4	71.7	63.0	58.7	56.5	58.7
42.5°	1388.1	1092.7	147.7	95.6	91.2	71.7	58.7	47.8	39.1	36.9	39.1
45°	1577.1	1177.4	117.3	89.1	82.5	60.8	45.6	32.6	23.9	21.7	23.9
47.5°	1816.1	1283.9	99.9	80.4	71.7	50.0	32.6	17.4	10.9	13.0	13.0
50°	2046.4	1388.1	91.2	73.9	63.0	41.3	19.6	8.7	4.3	6.5	6.5
52.5°	2300.5	1498.9	84.7	65.2	54.3	30.4	10.9	2.2	0.0	2.2	2.2
55°	2556.9	1598.9	78.2	58.7	43.4	21.7	4.3	0.0	0.0	0.0	2.2
57.5°	2834.9	1683.6	71.7	50.0	32.6	13.0	2.2	0.0	0.0	0.0	0.0
60°	3067.4	1748.7	65.2	43.4	21.7	6.5	0.0	0.0	0.0	0.0	0.0
62.5°	3280.3	1807.4	50.0	32.6	13.0	4.3	0.0	0.0	0.0	0.0	0.0
65°	3421.5	1820.4	34.8	21.7	8.7	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	3358.5	1707.5	21.7	15.2	4.3	2.2	0.0	0.0	0.0	0.0	0.0
70°	2952.2	1433.8	15.2	8.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2065.9	925.4	13.0	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1090.5	334.5	8.7	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	386.7	73.9	4.3	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0
80°	84.7	15.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)