

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: P594620

Luminaire Tested: **ISS-PA1C-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594620
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-PA1C-727-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 4319 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G2

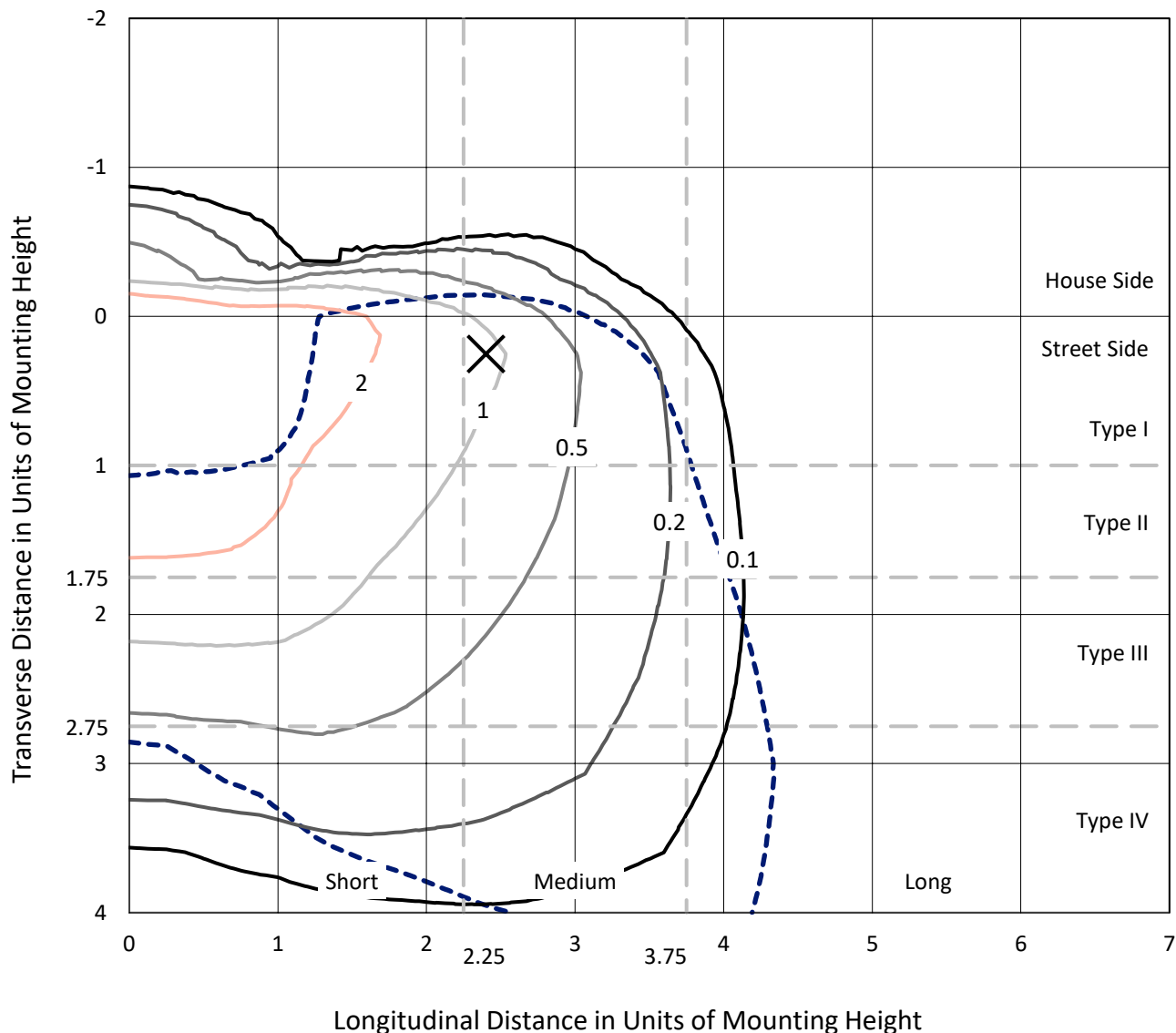
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

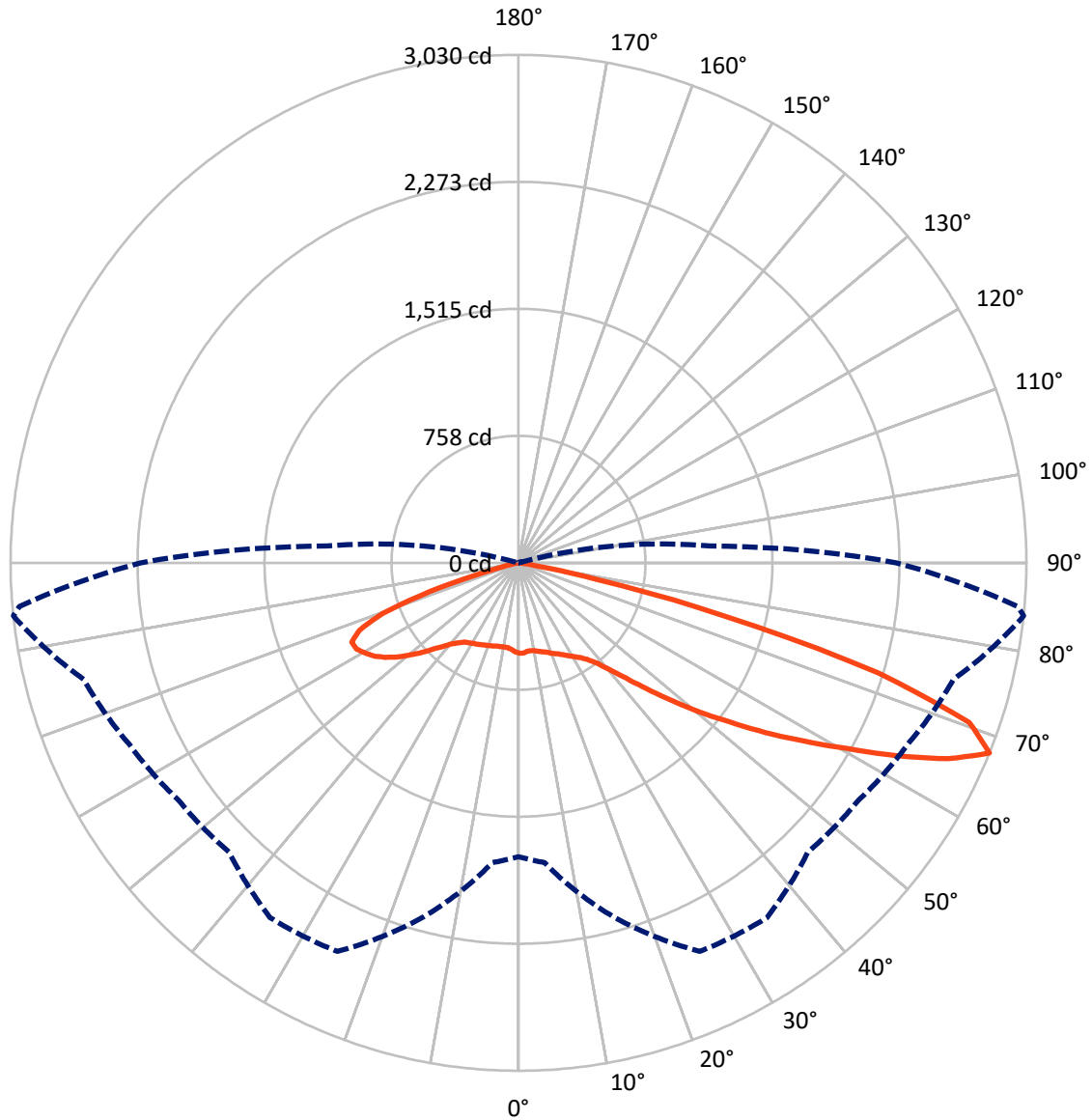
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ISS-PA1C-727-U-T4W-HSS

Luminous Intensity Polar Plot



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

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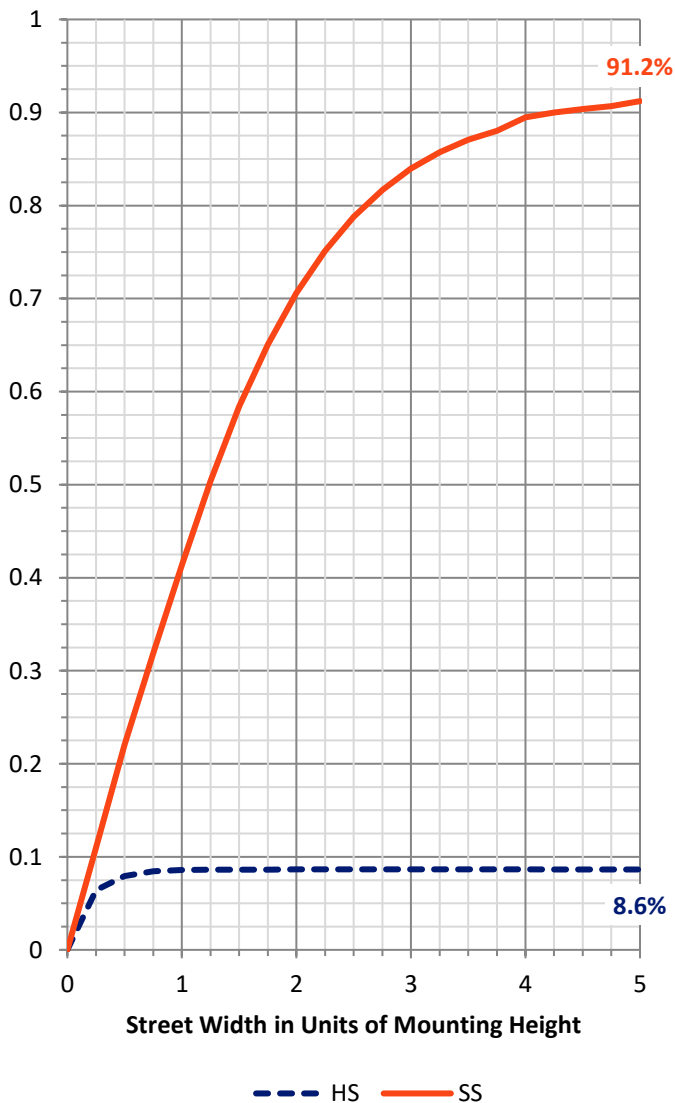
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.0	0.0	376.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3943.0	0.0	3943.0
	% Fixture	91.3	0.0	91.3
Total	Lumens	4319.0	0.0	4319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.1
10°-20°	126.2	2.9
20°-30°	202.1	4.7
30°-40°	290.9	6.7
40°-50°	499.2	11.6
50°-60°	872.3	20.2
60°-70°	1249.1	28.9
70°-80°	938.8	21.7
80°-90°	92.1	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°	4319.0	100.0
0°-180°	4319.0	100.0

Coefficient of Utilization

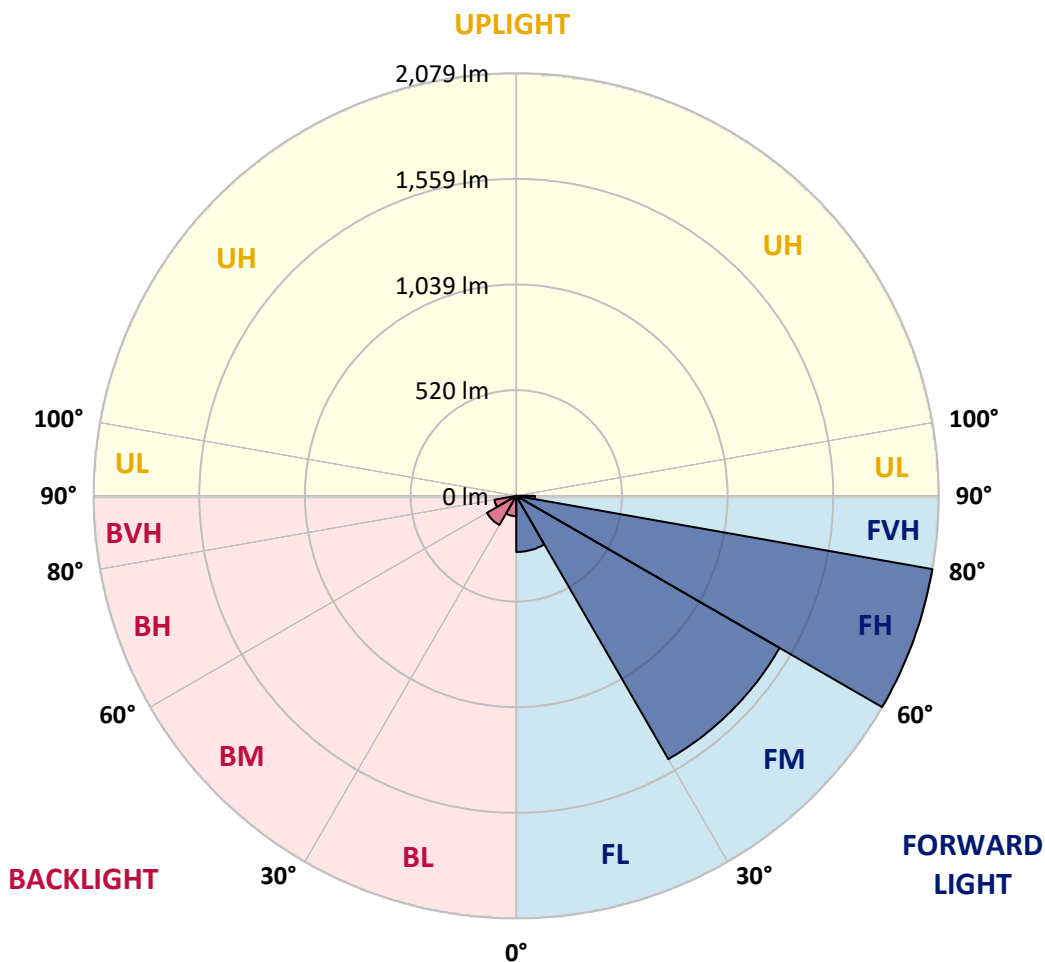


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.1	6.4			
FM (30°-60°)	1496.1	34.6			
FH (60°-80°)	2078.9	48.1			G2/5000
FVH (80°-90°)	91.9	2.1			G1/100
BL (0°-30°)	100.4	2.3	B0/110		
BM (30°-60°)	166.3	3.9	B0/220		
BH (60°-80°)	109.0	2.5	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: B0-U0-G2
 Type IV Medium





REPORT NUMBER: P594620
 CATALOG NUMBER: ISS-PA1C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
2.5°	568.7	571.6	573.1	565.8	565.8	560.0	551.2	548.3	543.9	539.6	538.1
5°	597.9	602.3	600.8	592.1	587.7	576.0	564.3	552.7	541.0	530.8	530.8
7.5°	631.4	632.9	628.5	613.9	605.2	589.1	571.6	558.5	543.9	529.3	526.4
10°	660.6	659.1	653.3	638.7	622.7	602.3	583.3	568.7	551.2	533.7	532.3
12.5°	681.0	682.5	675.2	654.8	638.7	615.4	596.4	581.8	561.4	542.5	538.1
15°	698.5	702.9	694.1	673.7	650.4	630.0	615.4	596.4	573.1	551.2	548.3
17.5°	714.5	716.0	708.7	685.4	663.5	646.0	630.0	612.5	589.1	561.4	558.5
20°	723.3	727.7	723.3	694.1	673.7	660.6	647.5	630.0	603.7	577.5	574.6
22.5°	729.1	733.5	732.0	700.0	682.5	672.3	660.6	644.5	619.8	589.1	586.2
25°	732.0	735.0	737.9	705.8	691.2	686.8	676.6	662.0	638.7	606.6	603.7
27.5°	736.4	739.3	742.3	713.1	707.3	702.9	700.0	688.3	660.6	627.0	622.7
30°	743.7	748.1	751.0	726.2	726.2	730.6	730.6	714.5	683.9	648.9	646.0
32.5°	752.5	753.9	759.7	739.3	746.6	756.8	753.9	737.9	705.8	673.7	669.3
35°	775.8	775.8	786.0	759.7	768.5	777.2	780.2	768.5	739.3	707.3	705.8
37.5°	832.7	832.7	841.4	799.1	797.7	806.4	816.6	816.6	787.5	758.3	755.4
40°	961.0	961.0	961.0	863.3	847.2	857.5	873.5	882.2	857.5	837.0	837.0
42.5°	1175.4	1176.8	1154.9	981.4	912.9	930.4	947.9	966.8	953.7	939.1	936.2
45°	1397.0	1389.7	1386.8	1154.9	1029.5	1020.8	1042.7	1074.7	1079.1	1070.4	1076.2
47.5°	1548.7	1556.0	1560.3	1370.8	1192.9	1133.1	1153.5	1198.7	1224.9	1223.5	1232.2
50°	1695.9	1700.3	1704.7	1608.5	1408.7	1274.5	1287.6	1348.9	1385.3	1397.0	1402.8
52.5°	1824.3	1812.6	1831.6	1818.4	1637.6	1436.4	1436.4	1506.4	1572.0	1576.4	1574.9
55°	1862.2	1869.5	1926.4	1965.7	1872.4	1634.7	1605.5	1679.9	1749.9	1786.4	1786.4
57.5°	1946.8	1954.1	2022.6	2111.6	2043.0	1830.1	1786.4	1859.3	1935.1	2005.1	2015.3
60°	2057.6	2059.1	2132.0	2267.6	2172.8	2006.6	1970.1	2053.2	2129.0	2248.6	2282.2
62.5°	2117.4	2123.2	2223.8	2401.7	2336.1	2161.1	2152.4	2228.2	2325.9	2535.9	2566.5
65°	2025.5	2063.4	2282.2	2481.9	2468.8	2305.5	2336.1	2397.4	2509.7	2817.3	2846.5
67.5°	1752.8	1795.1	2185.9	2557.8	2584.0	2441.1	2473.2	2562.2	2686.1	3030.2	2989.4
70°	1614.3	1649.3	1952.6	2600.1	2680.3	2592.8	2607.4	2690.5	2726.9	2852.3	2808.6
72.5°	1223.5	1259.9	1652.2	2455.7	2763.4	2751.7	2715.3	2646.7	2430.9	2244.3	2137.8
75°	541.0	583.3	1099.5	1919.1	2557.8	2842.1	2649.6	2266.1	1745.5	1274.5	1181.2
77.5°	239.2	263.9	425.8	1066.0	1922.0	2460.1	2095.5	1510.8	876.4	473.9	440.4
80°	77.3	80.2	134.2	373.3	982.9	1628.9	1283.3	726.2	269.8	110.8	103.5
82.5°	30.6	33.5	64.2	157.5	406.9	647.5	630.0	262.5	78.7	29.2	29.2
85°	8.7	10.2	32.1	83.1	144.4	182.3	223.1	87.5	42.3	8.7	8.7
87.5°	2.9	2.9	11.7	26.2	27.7	19.0	42.3	33.5	26.2	2.9	2.9
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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 CATALOG NUMBER: ISS-PA1C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1
2.5°	535.2	532.3	525.0	519.1	516.2	511.8	506.0	503.1	503.1	501.6	497.3
5°	525.0	520.6	507.5	498.7	491.4	475.4	463.7	449.1	434.6	430.2	434.6
7.5°	520.6	511.8	494.3	476.8	446.2	403.9	376.2	345.6	335.4	322.3	323.7
10°	522.1	511.8	487.1	447.7	387.9	325.2	281.4	240.6	220.2	210.0	211.4
12.5°	526.4	514.8	479.8	408.3	322.3	246.4	179.4	147.3	141.5	141.5	141.5
15°	535.2	517.7	468.1	361.6	252.3	163.3	126.9	124.0	128.3	132.7	134.2
17.5°	543.9	526.4	450.6	313.5	183.7	122.5	118.1	118.1	122.5	126.9	128.3
20°	554.1	535.2	425.8	262.5	131.2	115.2	113.7	112.3	115.2	119.6	121.0
22.5°	570.2	543.9	396.6	202.7	113.7	110.8	107.9	106.5	107.9	112.3	113.7
25°	584.8	555.6	366.0	150.2	106.5	103.5	102.1	100.6	100.6	103.5	105.0
27.5°	602.3	568.7	332.5	112.3	97.7	96.2	94.8	93.3	91.9	94.8	96.2
30°	624.1	580.4	296.0	94.8	89.0	87.5	86.0	84.6	83.1	84.6	86.0
32.5°	651.8	596.4	253.7	86.0	81.7	77.3	75.8	75.8	74.4	74.4	75.8
35°	688.3	613.9	208.5	80.2	74.4	70.0	65.6	64.2	64.2	64.2	65.6
37.5°	742.3	646.0	164.8	74.4	68.5	61.2	56.9	52.5	52.5	52.5	52.5
40°	816.6	681.0	128.3	70.0	64.2	54.0	48.1	42.3	39.4	37.9	39.4
42.5°	931.8	733.5	99.2	64.2	61.2	48.1	39.4	32.1	26.2	24.8	26.2
45°	1058.7	790.4	78.7	59.8	55.4	40.8	30.6	21.9	16.0	14.6	16.0
47.5°	1219.1	861.8	67.1	54.0	48.1	33.5	21.9	11.7	7.3	8.7	8.7
50°	1373.7	931.8	61.2	49.6	42.3	27.7	13.1	5.8	2.9	4.4	4.4
52.5°	1544.3	1006.2	56.9	43.7	36.5	20.4	7.3	1.5	0.0	1.5	1.5
55°	1716.4	1073.3	52.5	39.4	29.2	14.6	2.9	0.0	0.0	0.0	1.5
57.5°	1903.0	1130.1	48.1	33.5	21.9	8.7	1.5	0.0	0.0	0.0	0.0
60°	2059.1	1173.9	43.7	29.2	14.6	4.4	0.0	0.0	0.0	0.0	0.0
62.5°	2202.0	1213.3	33.5	21.9	8.7	2.9	0.0	0.0	0.0	0.0	0.0
65°	2296.7	1222.0	23.3	14.6	5.8	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	2254.5	1146.2	14.6	10.2	2.9	1.5	0.0	0.0	0.0	0.0	0.0
70°	1981.8	962.4	10.2	5.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1386.8	621.2	8.7	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	732.0	224.6	5.8	2.9	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	259.6	49.6	2.9	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	56.9	10.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)