

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: P594616

Luminaire Tested: **ISS-PA1C-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4207 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

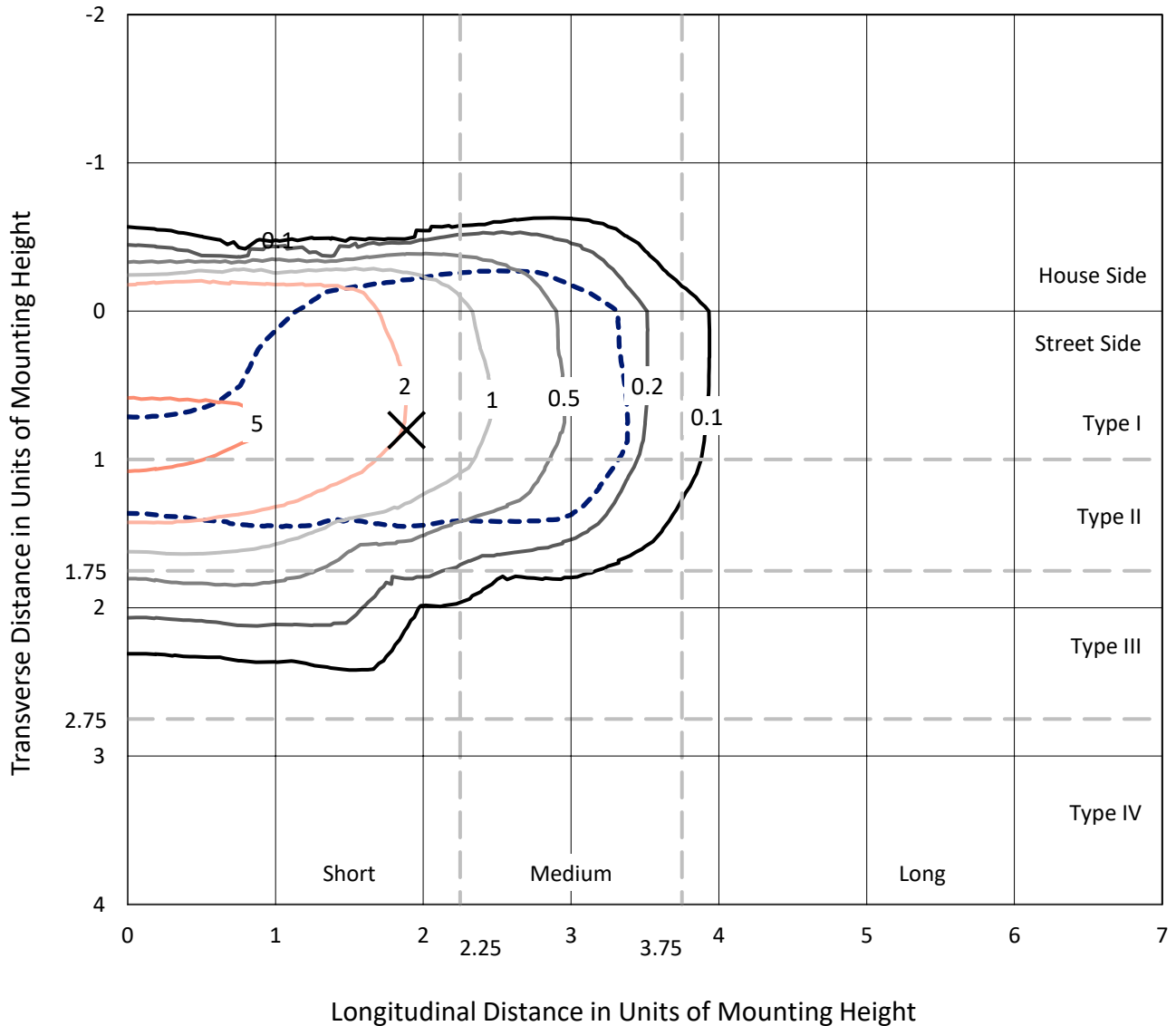
Input Watts (W): 48.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

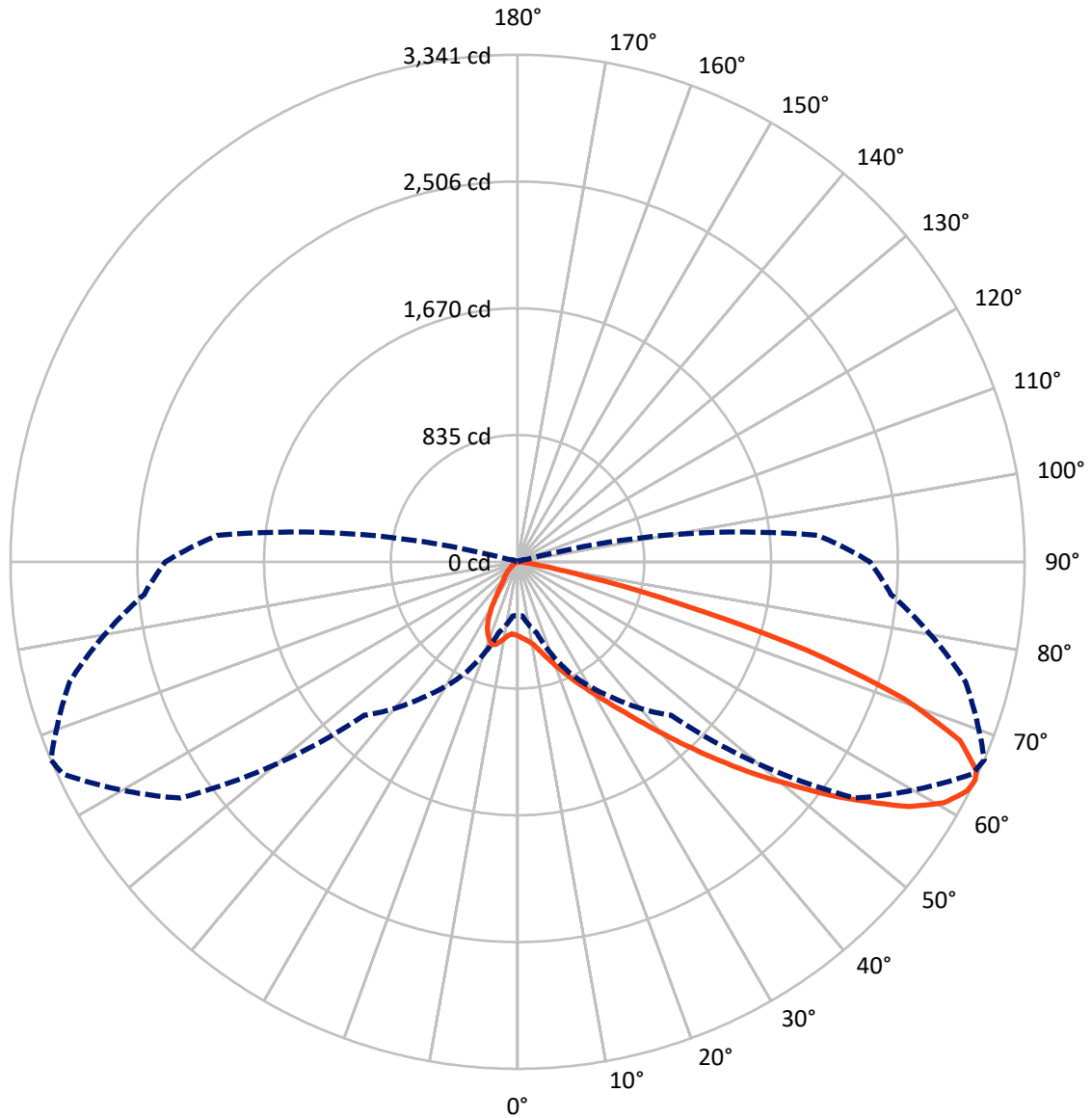
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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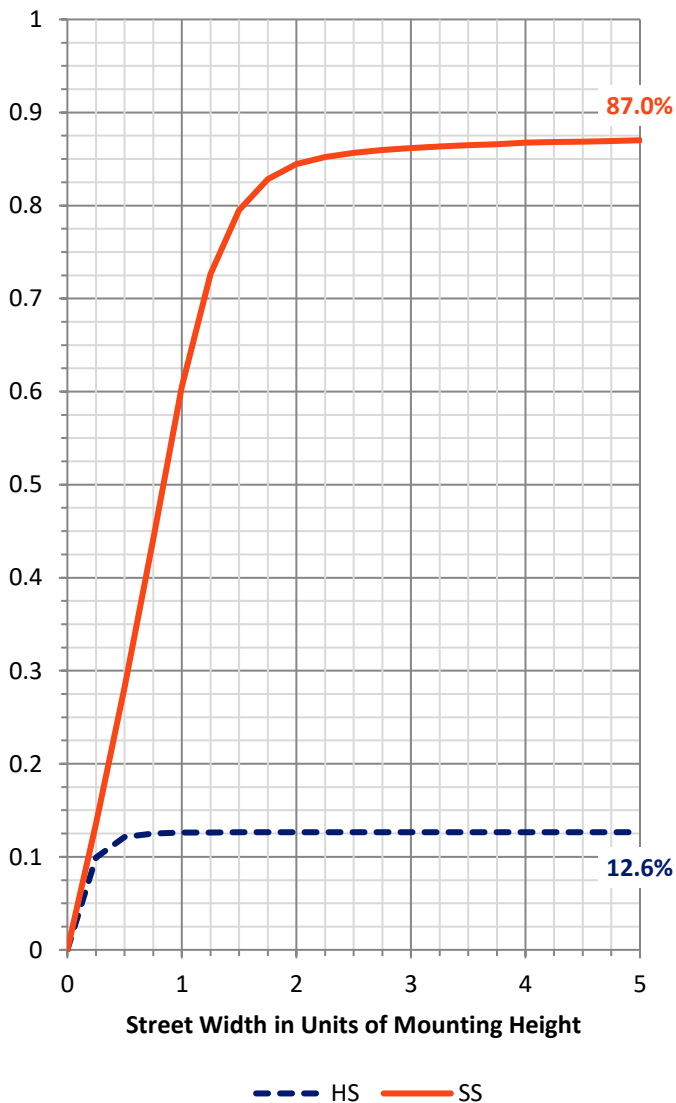
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.1	0.0	538.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3668.8	0.0	3668.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	4207.0	0.0	4207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.1
10°-20°	136.9	3.3
20°-30°	248.3	5.9
30°-40°	475.7	11.3
40°-50°	876.8	20.8
50°-60°	1132.4	26.9
60°-70°	927.6	22.0
70°-80°	341.0	8.1
80°-90°	22.0	0.5
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°	4207.0	100.0
0°-180°	4207.0	100.0

Coefficient of Utilization



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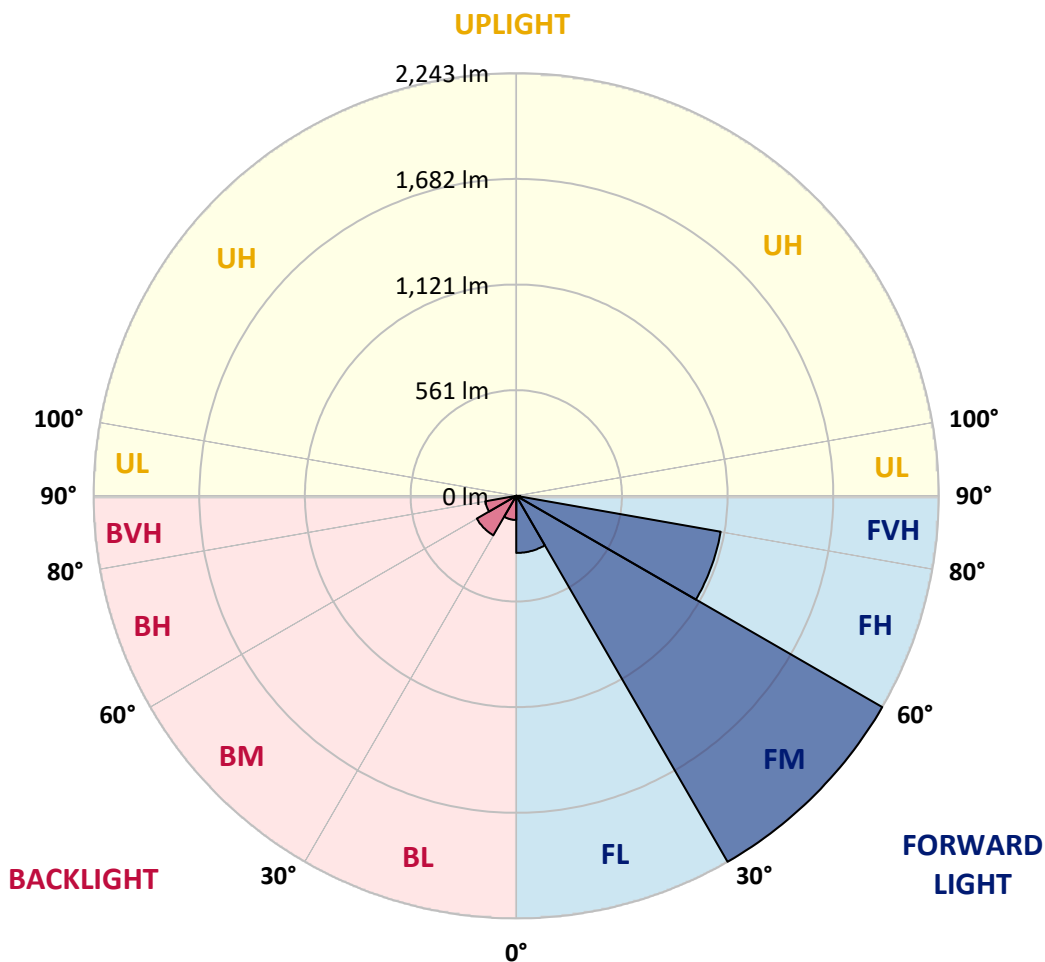
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.3	7.2			
FM (30°-60°)	2242.9	53.3			
FH (60°-80°)	1101.6	26.2			G1/1800
FVH (80°-90°)	21.0	0.5			G1/100
BL (0°-30°)	128.3	3.0	B1/500		
BM (30°-60°)	242.0	5.8	B1/1000		
BH (60°-80°)	167.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.0	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8
2.5°	506.2	506.2	509.1	507.6	507.6	504.7	500.4	501.8	500.4	499.0	494.6
5°	497.5	499.0	500.4	503.3	509.1	512.0	512.0	513.4	513.4	512.0	506.2
7.5°	493.2	496.1	499.0	501.8	509.1	513.4	520.7	529.3	529.3	530.8	525.0
10°	509.1	512.0	516.3	520.7	527.9	535.1	540.9	551.0	551.0	553.9	552.5
12.5°	542.3	542.3	543.8	546.7	556.8	565.5	575.6	584.3	585.7	587.2	582.8
15°	582.8	582.8	584.3	584.3	590.1	603.1	621.9	630.6	629.1	627.7	619.0
17.5°	629.1	629.1	629.1	630.6	633.5	640.7	662.4	679.7	678.3	676.8	659.5
20°	672.5	675.4	678.3	679.7	682.6	688.4	711.6	731.8	736.1	730.4	700.0
22.5°	721.7	723.1	724.6	728.9	736.1	739.0	762.2	792.5	796.9	789.7	749.2
25°	770.9	773.7	778.1	783.9	791.1	805.6	821.5	862.0	866.3	857.6	802.7
27.5°	879.3	877.9	864.9	854.7	856.2	866.3	888.0	931.4	935.7	927.0	856.2
30°	1064.4	1047.1	1022.5	977.7	934.3	938.6	969.0	1010.9	1018.2	1006.6	915.5
32.5°	1327.7	1310.3	1249.6	1151.2	1055.8	1023.9	1063.0	1103.5	1112.2	1099.2	984.9
35°	1583.6	1579.3	1521.5	1402.9	1240.9	1152.7	1162.8	1214.9	1217.7	1201.8	1071.7
37.5°	1900.4	1884.5	1804.9	1671.9	1481.0	1323.3	1294.4	1343.6	1350.8	1332.0	1177.2
40°	2110.1	2104.3	2056.6	1962.6	1757.2	1559.1	1454.9	1502.7	1501.2	1473.7	1298.7
42.5°	2231.6	2234.5	2231.6	2186.7	2069.6	1842.5	1667.5	1670.4	1674.8	1645.8	1439.0
45°	2314.0	2314.0	2318.3	2354.5	2309.7	2180.9	1926.4	1861.3	1867.1	1822.3	1585.1
47.5°	2312.6	2321.2	2344.4	2428.3	2489.0	2496.2	2250.4	2084.0	2081.2	2013.2	1735.5
50°	2156.4	2150.6	2246.0	2434.0	2616.3	2756.6	2557.0	2319.8	2295.2	2211.3	1891.7
52.5°	1804.9	1823.7	1982.8	2259.0	2646.6	2933.0	2821.6	2577.2	2545.4	2408.0	2029.1
55°	1498.3	1518.6	1673.3	1943.8	2481.8	2995.2	2999.5	2850.6	2786.9	2578.7	2170.8
57.5°	1125.2	1164.2	1392.7	1647.3	2120.2	2840.4	3063.2	3112.3	3042.9	2743.5	2286.5
60°	718.8	741.9	997.9	1311.7	1718.1	2435.5	3050.1	3264.2	3226.6	2893.9	2383.4
62.5°	470.0	483.0	659.5	987.8	1308.9	1835.3	2895.4	3324.9	3324.9	2995.2	2455.7
64°	354.3	357.2	483.0	802.7	1091.9	1430.3	2713.2	3306.1	3340.8	3055.9	2470.2
65°	280.6	282.0	377.5	666.7	980.6	1172.9	2554.1	3265.6	3322.0	3079.1	2478.9
67.5°	196.7	201.0	244.4	384.7	702.9	676.8	1893.1	3074.7	3144.1	3086.3	2467.3
70°	170.7	176.4	205.4	251.6	501.8	393.4	1006.6	2620.6	2703.0	2875.1	2296.6
72.5°	130.2	137.4	172.1	212.6	352.9	266.1	389.0	1861.3	1991.5	2222.9	1896.0
75°	94.0	96.9	127.3	173.6	247.3	205.4	167.8	960.3	1091.9	1311.7	1178.7
77.5°	59.3	63.6	86.8	130.2	221.3	156.2	99.8	350.0	441.1	571.3	514.9
80°	34.7	36.2	52.1	89.7	149.0	115.7	63.6	124.4	150.4	212.6	137.4
82.5°	20.2	21.7	33.3	60.7	96.9	89.7	40.5	63.6	70.9	81.0	28.9
85°	7.2	7.2	23.1	36.2	52.1	44.8	23.1	33.3	36.2	44.8	8.7
87.5°	1.4	1.4	11.6	18.8	18.8	7.2	11.6	14.5	17.4	24.6	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8	488.8
2.5°	493.2	488.8	484.5	478.7	474.4	465.7	461.4	455.6	454.1	451.2	449.8
5°	504.7	497.5	487.4	472.9	464.2	451.2	442.6	433.9	432.4	429.5	428.1
7.5°	520.7	513.4	500.4	484.5	470.0	457.0	446.9	433.9	420.9	410.7	410.7
10°	546.7	538.0	520.7	506.2	488.8	461.4	413.6	370.2	342.8	325.4	319.6
12.5°	578.5	566.9	548.1	530.8	497.5	410.7	337.0	280.6	234.3	212.6	208.3
15°	611.8	601.6	582.8	556.8	457.0	342.8	245.9	159.1	114.3	94.0	96.9
17.5°	647.9	633.5	611.8	559.7	402.1	256.0	131.6	81.0	69.4	66.5	66.5
20°	685.5	666.7	645.0	527.9	331.2	147.5	75.2	60.7	56.4	52.1	53.5
22.5°	726.0	702.9	669.6	480.2	237.2	79.5	57.9	49.2	43.4	41.9	41.9
25°	769.4	736.1	694.2	425.2	137.4	60.7	47.7	39.0	34.7	33.3	31.8
27.5°	815.7	773.7	700.0	352.9	78.1	50.6	37.6	30.4	26.0	24.6	24.6
30°	857.6	811.3	687.0	261.8	59.3	41.9	30.4	23.1	20.2	20.2	20.2
32.5°	914.0	853.3	646.5	163.4	47.7	33.3	23.1	18.8	15.9	15.9	15.9
35°	987.8	915.5	606.0	86.8	39.0	27.5	18.8	14.5	13.0	13.0	13.0
37.5°	1089.0	997.9	569.8	55.0	31.8	21.7	14.5	11.6	10.1	10.1	10.1
40°	1193.2	1096.3	519.2	41.9	26.0	17.4	11.6	8.7	7.2	7.2	8.7
42.5°	1323.3	1210.5	461.4	36.2	21.7	14.5	8.7	5.8	4.3	5.8	5.8
45°	1454.9	1330.6	380.4	30.4	18.8	11.6	5.8	2.9	2.9	4.3	4.3
47.5°	1590.9	1457.8	295.0	26.0	15.9	8.7	4.3	1.4	1.4	2.9	2.9
50°	1731.2	1583.6	219.8	23.1	13.0	7.2	2.9	1.4	0.0	1.4	1.4
52.5°	1871.4	1705.1	170.7	20.2	11.6	5.8	1.4	0.0	0.0	0.0	1.4
55°	2001.6	1815.0	135.9	17.4	10.1	4.3	1.4	0.0	0.0	0.0	0.0
57.5°	2111.5	1896.0	108.5	15.9	8.7	2.9	1.4	0.0	0.0	0.0	0.0
60°	2215.7	1959.7	83.9	13.0	7.2	2.9	1.4	0.0	0.0	0.0	0.0
62.5°	2289.4	1984.3	68.0	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
64°	2321.2	1987.1	59.3	10.1	5.8	2.9	1.4	0.0	0.0	0.0	0.0
65°	2340.0	1978.5	55.0	10.1	5.8	2.9	1.4	0.0	0.0	0.0	0.0
67.5°	2344.4	1930.7	41.9	8.7	4.3	1.4	1.4	0.0	0.0	0.0	0.0
70°	2217.1	1764.4	30.4	5.8	2.9	1.4	0.0	0.0	0.0	0.0	0.0
72.5°	1852.6	1347.9	20.2	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0
75°	1157.0	582.8	11.6	4.3	1.4	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	478.7	176.4	7.2	2.9	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	109.9	41.9	2.9	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	7.2	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	5.8	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.4	1.4	1.4	1.4	1.4	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)