

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: P594861

Luminaire Tested: **ISS-PA1F-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1F-727-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7269 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

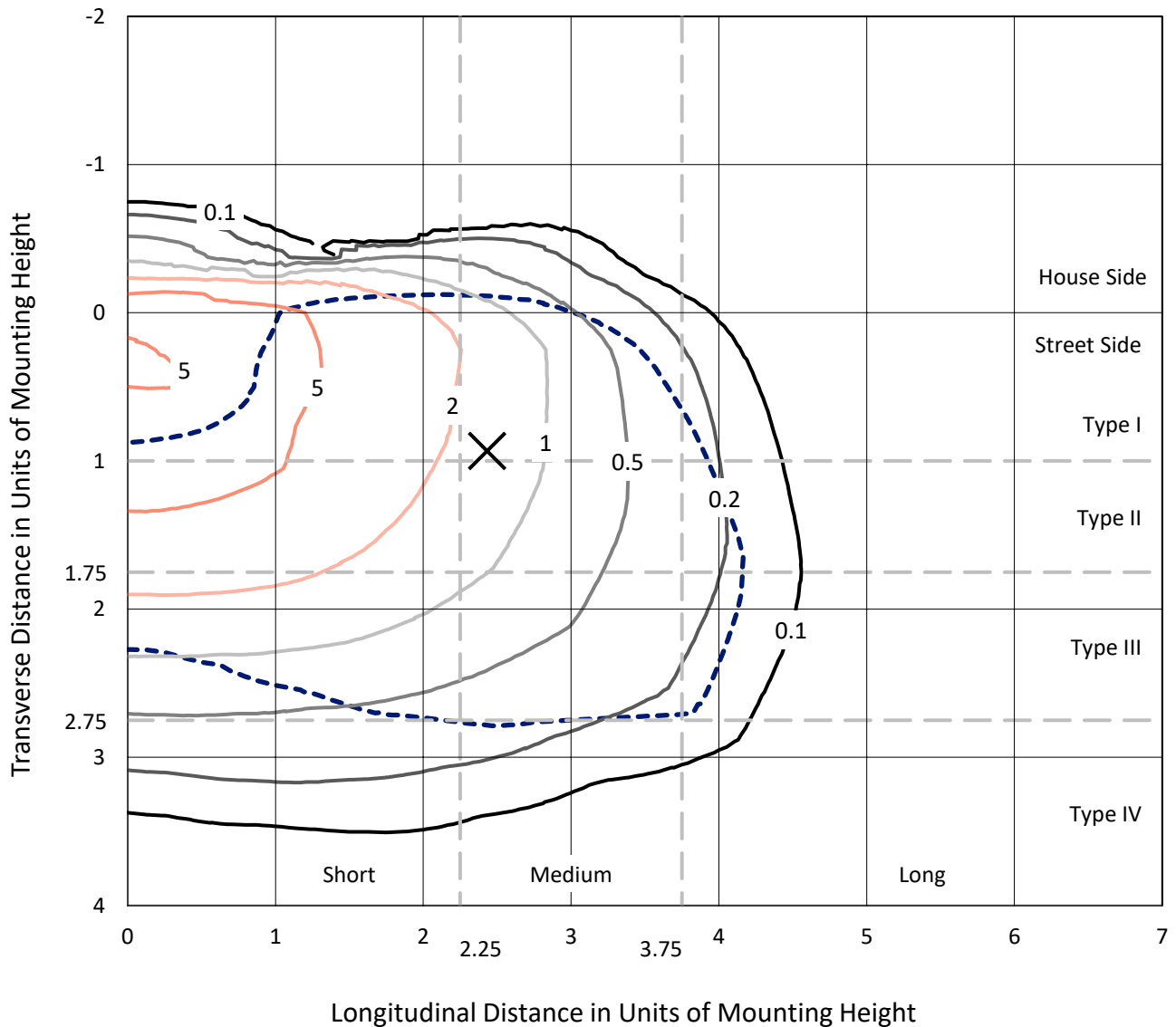
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

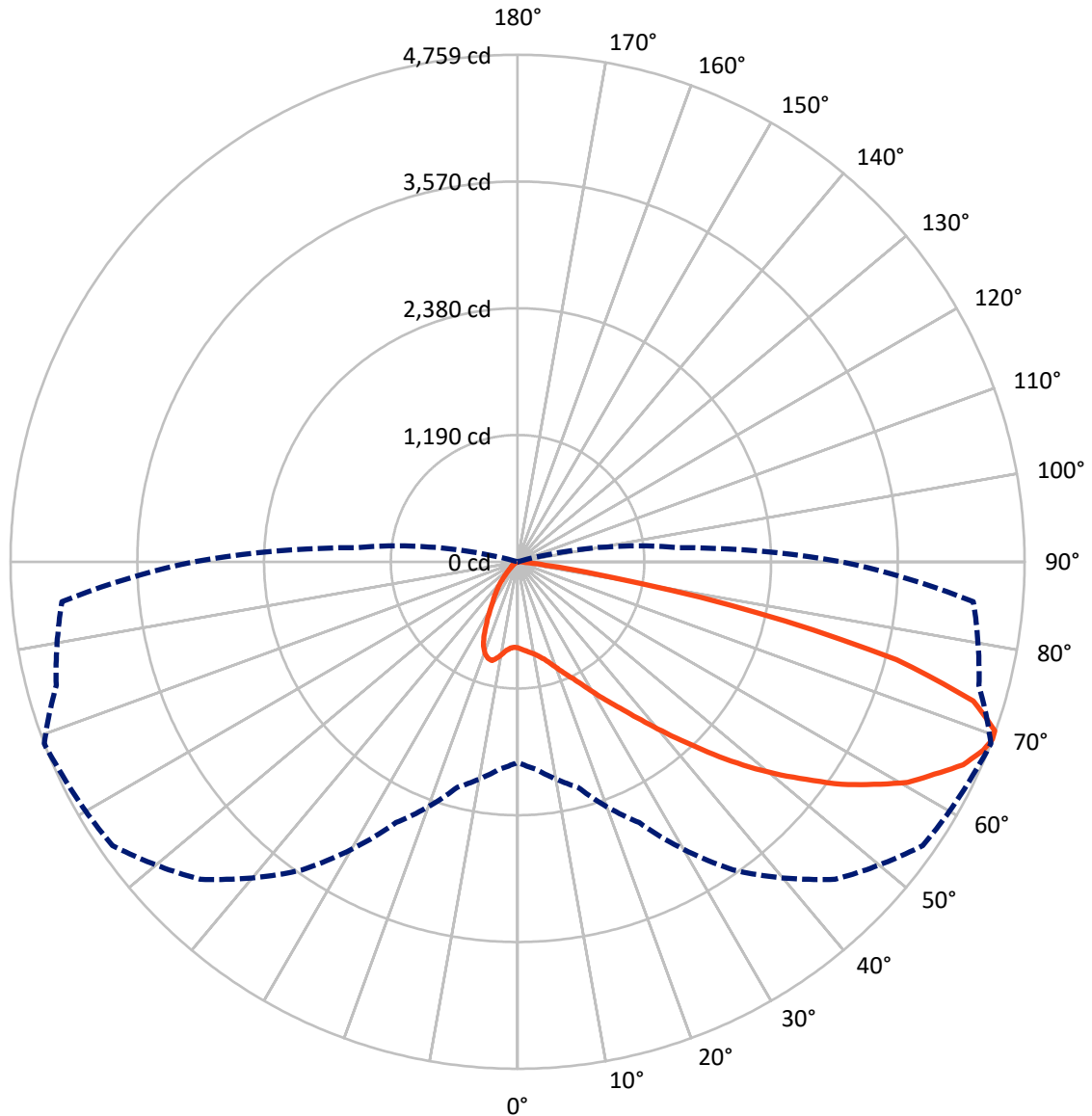
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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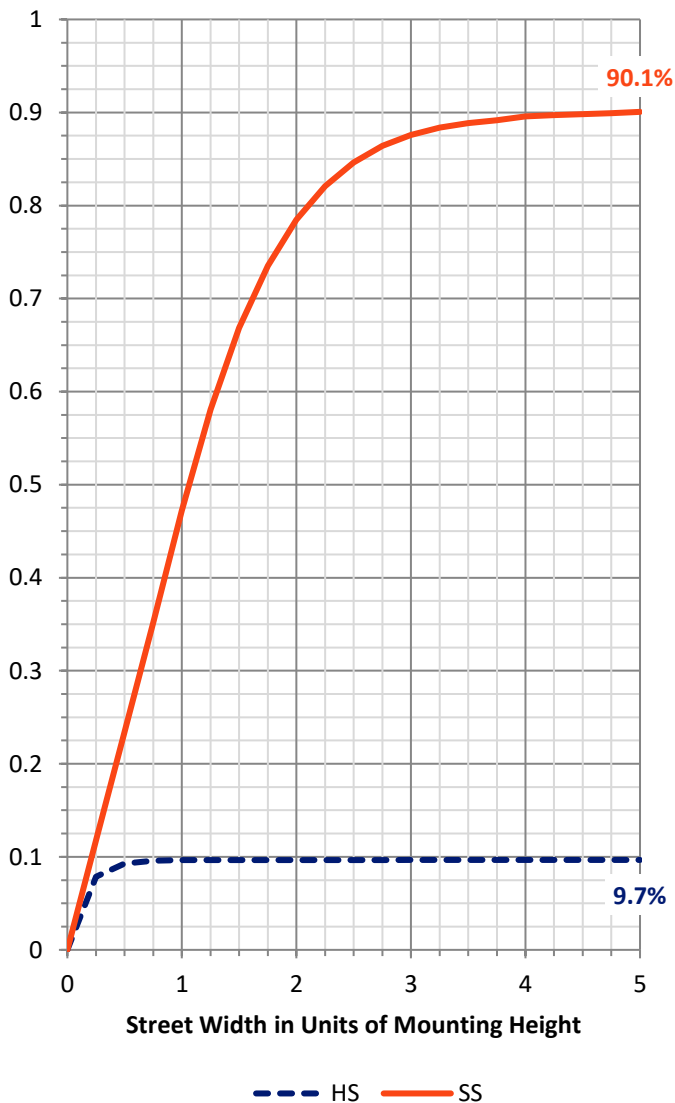
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	708.3	0.0	708.3
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6560.7	0.0	6560.7
	% Fixture	90.3	0.0	90.3
Total	Lumens	7269.0	0.0	7269.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.1
10°-20°	204.0	2.8
20°-30°	339.6	4.7
30°-40°	611.4	8.4
40°-50°	1108.7	15.3
50°-60°	1732.6	23.8
60°-70°	2004.6	27.6
70°-80°	1121.0	15.4
80°-90°	70.0	1.0
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°	7269.0	100.0
0°-180°	7269.0	100.0



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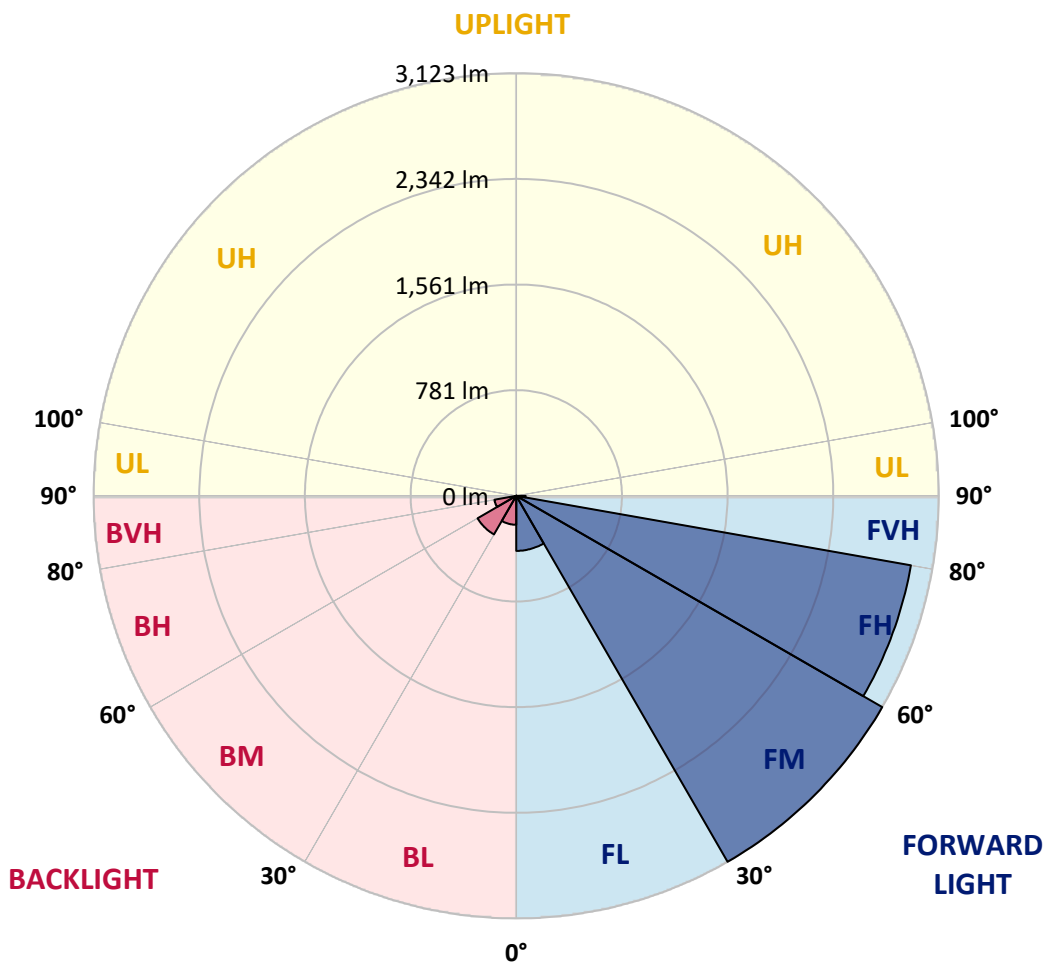
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.7	5.6			
FM (30°-60°)	3123.0	43.0			
FH (60°-80°)	2961.6	40.7			G2/5000
FVH (80°-90°)	69.5	1.0			G1/100
BL (0°-30°)	214.0	2.9	B1/500		
BM (30°-60°)	329.7	4.5	B1/1000		
BH (60°-80°)	164.0	2.3	B1/500		G1/500
BVH (80°-90°)	0.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	837.6	837.6	837.6	832.8	835.2	832.8	830.3	823.1	825.5	823.1	815.8
5°	808.6	811.0	818.2	823.1	835.2	840.0	842.5	842.5	840.0	835.2	830.3
7.5°	752.9	752.9	760.1	774.7	798.9	825.5	847.3	859.4	861.8	861.8	854.6
10°	738.4	738.4	748.0	757.7	781.9	813.4	847.3	876.3	881.2	886.0	883.6
12.5°	731.1	733.5	743.2	760.1	791.6	820.7	857.0	898.1	912.7	924.8	927.2
15°	740.8	740.8	750.5	767.4	803.7	844.9	890.9	936.9	951.4	968.3	980.4
17.5°	755.3	760.1	765.0	781.9	815.8	866.7	927.2	987.7	1004.6	1026.4	1036.1
20°	779.5	779.5	784.4	798.9	835.2	895.7	980.4	1053.1	1067.6	1082.1	1094.2
22.5°	808.6	811.0	811.0	823.1	864.2	929.6	1026.4	1116.0	1140.2	1147.5	1152.3
25°	895.7	890.9	873.9	866.7	898.1	968.3	1082.1	1191.1	1217.7	1224.9	1215.3
27.5°	1077.3	1057.9	1011.9	963.5	958.7	1028.9	1157.2	1285.5	1314.5	1316.9	1283.0
30°	1304.8	1307.3	1232.2	1128.1	1057.9	1094.2	1239.5	1404.1	1433.1	1421.0	1367.8
32.5°	1585.6	1573.5	1517.9	1367.8	1227.4	1195.9	1329.0	1527.5	1561.4	1542.1	1471.9
35°	1825.3	1832.6	1764.8	1631.6	1454.9	1353.2	1438.0	1665.5	1706.7	1672.8	1585.6
37.5°	2026.2	2035.9	1994.8	1885.8	1728.5	1568.7	1580.8	1827.7	1883.4	1849.5	1740.6
40°	2249.0	2256.2	2239.3	2120.7	1980.2	1825.3	1772.1	2014.1	2089.2	2043.2	1929.4
42.5°	2493.5	2520.1	2491.0	2396.6	2251.4	2118.2	2038.3	2241.7	2316.7	2287.7	2135.2
45°	2827.5	2830.0	2796.1	2701.7	2551.6	2442.6	2345.8	2483.8	2580.6	2544.3	2365.2
47.5°	3074.5	3091.4	3072.0	3006.7	2885.6	2813.0	2679.9	2750.1	2851.7	2805.7	2602.4
50°	3263.3	3309.3	3292.3	3311.7	3251.2	3219.7	3016.4	3026.0	3125.3	3086.6	2844.5
52.5°	3367.4	3425.5	3430.3	3529.6	3580.4	3657.9	3343.2	3328.6	3391.6	3357.7	3091.4
55°	3352.9	3367.4	3488.4	3670.0	3868.5	4045.2	3662.7	3602.2	3689.4	3594.9	3352.9
57.5°	3212.4	3248.8	3461.8	3686.9	4038.0	4294.6	3938.7	3870.9	3943.5	3817.7	3621.6
60°	3011.5	3064.8	3338.3	3660.3	4137.2	4444.7	4207.4	4139.6	4205.0	4052.5	3926.6
62.5°	2830.0	2854.2	3105.9	3548.9	4079.1	4437.4	4415.6	4352.7	4391.4	4231.6	4188.0
65°	2570.9	2580.6	2830.0	3348.0	3950.8	4389.0	4529.4	4553.6	4594.7	4381.7	4374.5
67.5°	2171.5	2193.3	2440.2	2997.0	3737.8	4294.6	4619.0	4667.4	4715.8	4461.6	4408.3
69°	1883.4	1953.6	2190.9	2701.7	3532.0	4214.7	4643.2	4720.6	4759.4	4483.4	4294.6
70°	1648.6	1709.1	1982.7	2474.1	3350.4	4125.1	4660.1	4713.4	4752.1	4437.4	4108.2
72.5°	827.9	905.4	1280.6	1805.9	2662.9	3716.0	4573.0	4514.9	4473.7	4081.5	3323.8
75°	319.6	331.7	549.5	1028.9	1665.5	2728.3	3904.8	3795.9	3674.8	3096.2	1970.6
77.5°	176.7	174.3	239.7	455.1	709.3	1333.9	2641.1	2466.8	2299.8	1663.1	798.9
80°	75.0	79.9	104.1	217.9	372.8	462.4	1283.0	1140.2	907.8	527.7	191.2
82.5°	46.0	48.4	72.6	133.1	259.0	176.7	416.4	355.9	261.5	142.8	46.0
85°	14.5	16.9	50.8	89.6	125.9	72.6	94.4	82.3	72.6	60.5	14.5
87.5°	2.4	2.4	19.4	48.4	33.9	12.1	9.7	16.9	26.6	29.1	4.8
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°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	813.4	808.6	803.7	801.3	801.3	796.5	794.0	791.6	791.6	789.2	789.2
5°	823.1	818.2	813.4	811.0	806.1	803.7	803.7	803.7	801.3	803.7	806.1
7.5°	847.3	840.0	837.6	835.2	835.2	827.9	815.8	784.4	752.9	743.2	733.5
10°	881.2	878.8	878.8	878.8	861.8	798.9	711.7	634.3	593.1	559.2	559.2
12.5°	929.6	929.6	927.2	919.9	832.8	680.3	544.7	428.5	360.7	322.0	326.8
15°	982.9	980.4	985.3	939.3	733.5	525.3	329.2	232.4	196.1	191.2	191.2
17.5°	1038.5	1043.4	1038.5	888.4	602.8	324.4	196.1	176.7	171.9	171.9	171.9
20°	1096.6	1091.8	1084.5	801.3	438.2	203.4	169.5	164.6	159.8	157.4	157.4
22.5°	1154.7	1149.9	1101.5	689.9	273.6	167.0	159.8	150.1	142.8	140.4	140.4
25°	1210.4	1210.4	1070.0	547.1	186.4	157.4	145.3	135.6	128.3	121.0	121.0
27.5°	1280.6	1285.5	1019.2	382.5	157.4	145.3	130.7	116.2	106.5	101.7	101.7
30°	1360.5	1367.8	936.9	249.3	142.8	128.3	113.8	96.8	82.3	77.5	75.0
32.5°	1454.9	1462.2	842.5	164.6	128.3	111.4	94.4	72.6	58.1	55.7	53.3
35°	1576.0	1559.0	728.7	130.7	111.4	94.4	72.6	50.8	41.2	38.7	38.7
37.5°	1726.1	1689.7	597.9	113.8	94.4	75.0	53.3	33.9	26.6	26.6	24.2
40°	1897.9	1796.3	462.4	101.7	79.9	58.1	33.9	21.8	16.9	16.9	16.9
42.5°	2086.8	1885.8	329.2	89.6	65.4	41.2	21.8	12.1	9.7	9.7	9.7
45°	2304.6	1968.1	225.1	77.5	55.7	29.1	12.1	4.8	4.8	4.8	4.8
47.5°	2522.5	2021.4	150.1	67.8	41.2	16.9	7.3	2.4	2.4	2.4	2.4
50°	2742.8	2062.6	116.2	58.1	29.1	9.7	2.4	0.0	0.0	0.0	0.0
52.5°	2938.9	2091.6	94.4	48.4	19.4	7.3	2.4	0.0	0.0	0.0	0.0
55°	3108.4	2094.0	82.3	38.7	14.5	4.8	0.0	0.0	0.0	0.0	0.0
57.5°	3280.2	2074.7	70.2	29.1	9.7	2.4	0.0	0.0	0.0	0.0	0.0
60°	3384.3	2023.8	55.7	21.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
62.5°	3447.3	1939.1	43.6	14.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
65°	3411.0	1832.6	31.5	9.7	4.8	2.4	0.0	0.0	0.0	0.0	0.0
67.5°	3241.5	1668.0	21.8	7.3	2.4	2.4	0.0	0.0	0.0	0.0	0.0
69°	3040.6	1517.9	19.4	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
70°	2863.8	1401.7	16.9	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	2132.8	903.0	14.5	4.8	2.4	2.4	0.0	0.0	0.0	0.0	0.0
75°	1198.3	302.6	9.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	450.3	77.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.3	19.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)