

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: P594888

Luminaire Tested: **ISS-PA1F-740-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594888
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-740-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 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: 8692 lumens
Efficiency: N/A
Efficacy: 92.1 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

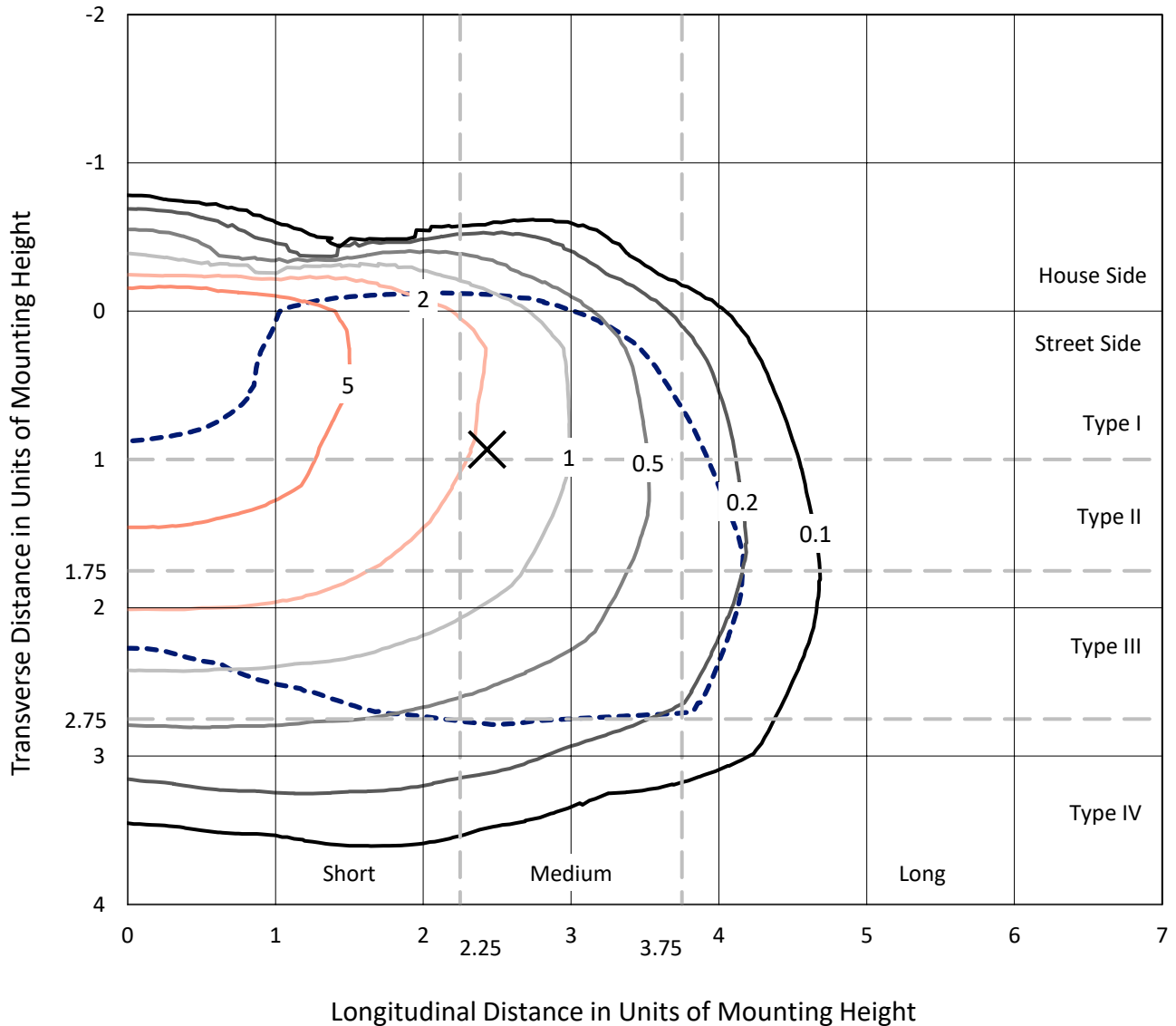
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

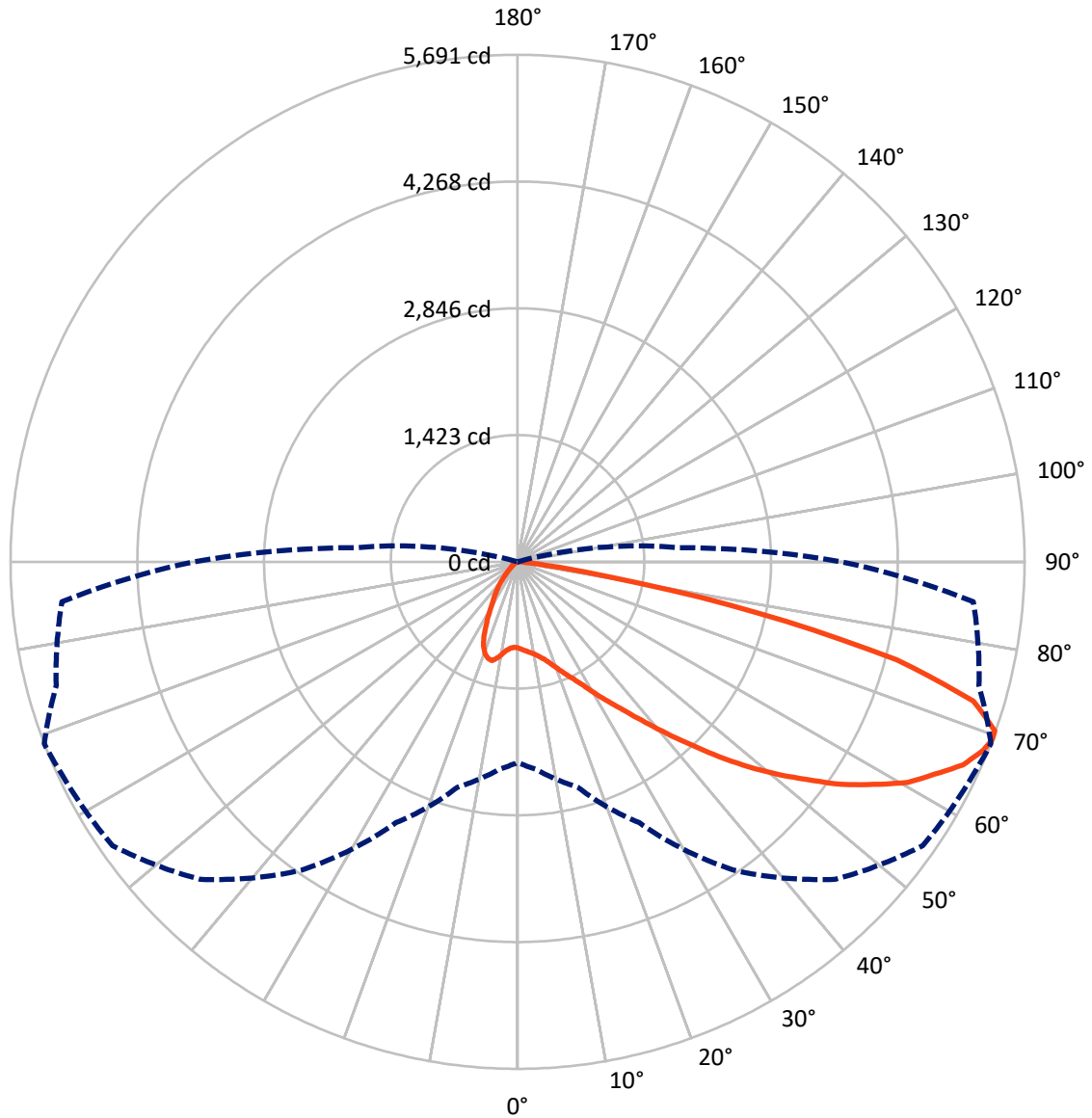
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.4 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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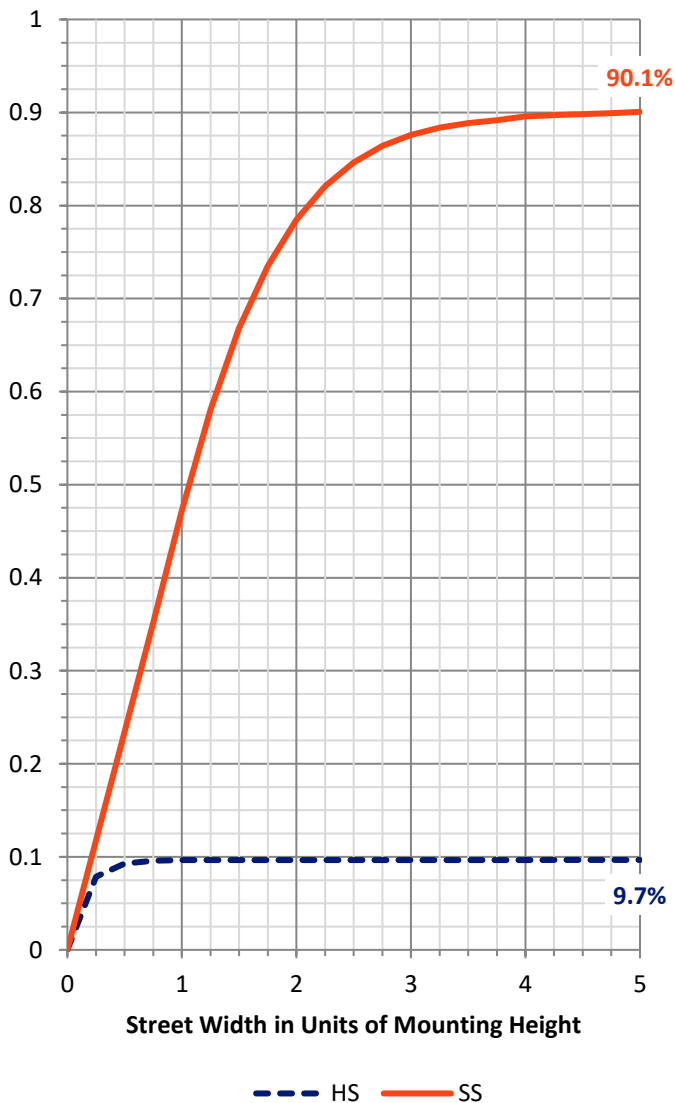
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.0	0.0	847.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	7845.0	0.0	7845.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	8692.0	0.0	8692.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	1.1
10°-20°	243.9	2.8
20°-30°	406.1	4.7
30°-40°	731.1	8.4
40°-50°	1325.7	15.3
50°-60°	2071.8	23.8
60°-70°	2397.0	27.6
70°-80°	1340.5	15.4
80°-90°	83.7	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°	8692.0	100.0
0°-180°	8692.0	100.0



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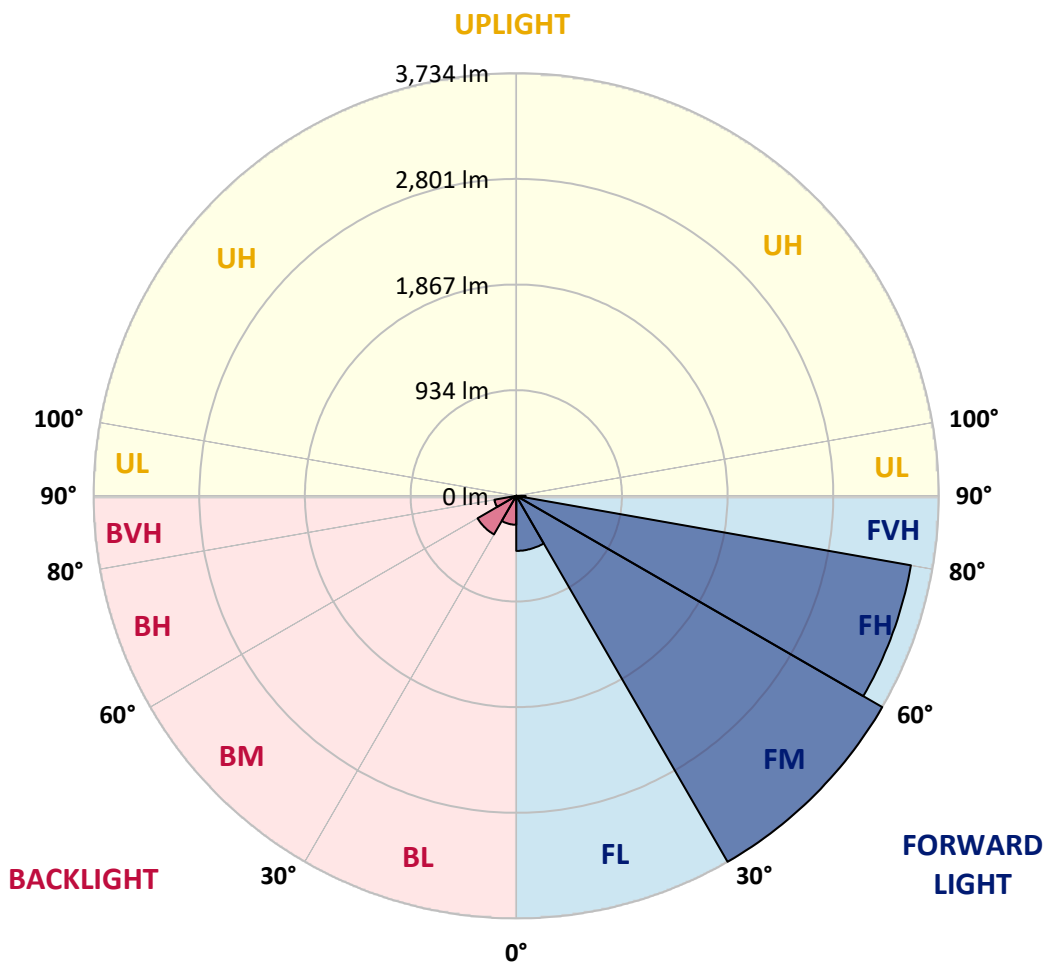
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.3	5.6			
FM (30°-60°)	3734.4	43.0			
FH (60°-80°)	3541.3	40.7			G2/5000
FVH (80°-90°)	83.1	1.0			G1/100
BL (0°-30°)	256.0	2.9	B1/500		
BM (30°-60°)	394.3	4.5	B1/1000		
BH (60°-80°)	196.1	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	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°	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8
2.5°	1001.6	1001.6	1001.6	995.8	998.7	995.8	992.9	984.2	987.1	984.2	975.5
5°	966.8	969.7	978.4	984.2	998.7	1004.5	1007.4	1007.4	1004.5	998.7	992.9
7.5°	900.3	900.3	909.0	926.3	955.3	987.1	1013.2	1027.6	1030.5	1030.5	1021.8
10°	882.9	882.9	894.5	906.1	935.0	972.6	1013.2	1047.9	1053.7	1059.5	1056.6
12.5°	874.2	877.1	888.7	909.0	946.6	981.3	1024.7	1074.0	1091.3	1105.8	1108.7
15°	885.8	885.8	897.4	917.6	961.1	1010.3	1065.3	1120.3	1137.6	1157.9	1172.4
17.5°	903.2	909.0	914.7	935.0	975.5	1036.3	1108.7	1181.1	1201.3	1227.4	1239.0
20°	932.1	932.1	937.9	955.3	998.7	1071.1	1172.4	1259.2	1276.6	1294.0	1308.4
22.5°	966.8	969.7	969.7	984.2	1033.4	1111.6	1227.4	1334.5	1363.4	1372.1	1377.9
25°	1071.1	1065.3	1045.0	1036.3	1074.0	1157.9	1294.0	1424.2	1456.1	1464.7	1453.2
27.5°	1288.2	1265.0	1210.0	1152.1	1146.3	1230.3	1383.7	1537.1	1571.8	1574.7	1534.2
30°	1560.3	1563.2	1473.4	1349.0	1265.0	1308.4	1482.1	1679.0	1713.7	1699.2	1635.5
32.5°	1896.1	1881.6	1815.0	1635.5	1467.6	1430.0	1589.2	1826.6	1867.1	1844.0	1760.0
35°	2182.6	2191.3	2110.3	1951.1	1739.7	1618.2	1719.5	1991.6	2040.8	2000.3	1896.1
37.5°	2422.9	2434.5	2385.3	2255.0	2066.8	1875.8	1890.3	2185.5	2252.1	2211.6	2081.3
40°	2689.2	2697.9	2677.6	2535.8	2367.9	2182.6	2119.0	2408.4	2498.2	2443.2	2307.1
42.5°	2981.6	3013.4	2978.7	2865.8	2692.1	2532.9	2437.4	2680.5	2770.3	2735.5	2553.2
45°	3381.1	3384.0	3343.4	3230.5	3051.1	2920.8	2805.0	2970.0	3085.8	3042.4	2828.2
47.5°	3676.3	3696.6	3673.4	3595.3	3450.5	3363.7	3204.5	3288.4	3410.0	3355.0	3111.9
50°	3902.1	3957.1	3936.9	3960.0	3887.6	3850.0	3606.9	3618.4	3737.1	3690.8	3401.3
52.5°	4026.6	4096.1	4101.9	4220.5	4281.3	4374.0	3997.6	3980.3	4055.5	4015.0	3696.6
55°	4009.2	4026.6	4171.3	4388.4	4625.8	4837.1	4379.8	4307.4	4411.6	4298.7	4009.2
57.5°	3841.3	3884.7	4139.5	4408.7	4828.4	5135.3	4709.8	4628.7	4715.5	4565.0	4330.5
60°	3601.1	3664.7	3991.9	4376.9	4947.1	5314.8	5031.1	4950.0	5028.2	4845.8	4695.3
62.5°	3384.0	3412.9	3714.0	4243.7	4877.6	5306.1	5280.0	5204.8	5251.1	5060.0	5007.9
65°	3074.2	3085.8	3384.0	4003.4	4724.2	5248.2	5416.1	5445.0	5494.2	5239.5	5230.8
67.5°	2596.6	2622.6	2917.9	3583.7	4469.5	5135.3	5523.2	5581.1	5639.0	5335.0	5271.3
69°	2252.1	2336.1	2619.7	3230.5	4223.4	5039.8	5552.1	5644.8	5691.1	5361.1	5135.3
70°	1971.3	2043.7	2370.8	2958.4	4006.3	4932.6	5572.4	5636.1	5682.4	5306.1	4912.4
72.5°	990.0	1082.6	1531.3	2159.5	3184.2	4443.4	5468.2	5398.7	5349.5	4880.5	3974.5
75°	382.1	396.6	657.1	1230.3	1991.6	3262.4	4669.2	4539.0	4394.2	3702.4	2356.3
77.5°	211.3	208.4	286.6	544.2	848.2	1595.0	3158.2	2949.7	2750.0	1988.7	955.3
80°	89.7	95.5	124.5	260.5	445.8	552.9	1534.2	1363.4	1085.5	631.1	228.7
82.5°	55.0	57.9	86.8	159.2	309.7	211.3	497.9	425.5	312.6	170.8	55.0
85°	17.4	20.3	60.8	107.1	150.5	86.8	112.9	98.4	86.8	72.4	17.4
87.5°	2.9	2.9	23.2	57.9	40.5	14.5	11.6	20.3	31.8	34.7	5.8
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°	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8	966.8
2.5°	972.6	966.8	961.1	958.2	958.2	952.4	949.5	946.6	946.6	943.7	943.7
5°	984.2	978.4	972.6	969.7	964.0	961.1	961.1	961.1	958.2	961.1	964.0
7.5°	1013.2	1004.5	1001.6	998.7	998.7	990.0	975.5	937.9	900.3	888.7	877.1
10°	1053.7	1050.8	1050.8	1050.8	1030.5	955.3	851.1	758.4	709.2	668.7	668.7
12.5°	1111.6	1111.6	1108.7	1100.0	995.8	813.4	651.3	512.4	431.3	385.0	390.8
15°	1175.3	1172.4	1178.2	1123.2	877.1	628.2	393.7	277.9	234.5	228.7	228.7
17.5°	1241.8	1247.6	1241.8	1062.4	720.8	387.9	234.5	211.3	205.5	205.5	205.5
20°	1311.3	1305.5	1296.8	958.2	523.9	243.2	202.6	196.8	191.1	188.2	188.2
22.5°	1380.8	1375.0	1317.1	825.0	327.1	199.7	191.1	179.5	170.8	167.9	167.9
25°	1447.4	1447.4	1279.5	654.2	222.9	188.2	173.7	162.1	153.4	144.7	144.7
27.5°	1531.3	1537.1	1218.7	457.4	188.2	173.7	156.3	138.9	127.4	121.6	121.6
30°	1626.8	1635.5	1120.3	298.2	170.8	153.4	136.1	115.8	98.4	92.6	89.7
32.5°	1739.7	1748.4	1007.4	196.8	153.4	133.2	112.9	86.8	69.5	66.6	63.7
35°	1884.5	1864.2	871.3	156.3	133.2	112.9	86.8	60.8	49.2	46.3	46.3
37.5°	2064.0	2020.5	715.0	136.1	112.9	89.7	63.7	40.5	31.8	31.8	28.9
40°	2269.5	2147.9	552.9	121.6	95.5	69.5	40.5	26.1	20.3	20.3	20.3
42.5°	2495.3	2255.0	393.7	107.1	78.2	49.2	26.1	14.5	11.6	11.6	11.6
45°	2755.8	2353.4	269.2	92.6	66.6	34.7	14.5	5.8	5.8	5.8	5.8
47.5°	3016.3	2417.1	179.5	81.1	49.2	20.3	8.7	2.9	2.9	2.9	2.9
50°	3279.7	2466.3	138.9	69.5	34.7	11.6	2.9	0.0	0.0	0.0	0.0
52.5°	3514.2	2501.1	112.9	57.9	23.2	8.7	2.9	0.0	0.0	0.0	0.0
55°	3716.9	2504.0	98.4	46.3	17.4	5.8	0.0	0.0	0.0	0.0	0.0
57.5°	3922.4	2480.8	83.9	34.7	11.6	2.9	0.0	0.0	0.0	0.0	0.0
60°	4046.9	2420.0	66.6	26.1	8.7	2.9	0.0	0.0	0.0	0.0	0.0
62.5°	4122.1	2318.7	52.1	17.4	5.8	2.9	0.0	0.0	0.0	0.0	0.0
65°	4078.7	2191.3	37.6	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
67.5°	3876.1	1994.5	26.1	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0
69°	3635.8	1815.0	23.2	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
70°	3424.5	1676.1	20.3	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	2550.3	1079.7	17.4	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
75°	1432.9	361.8	11.6	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	538.4	92.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.7	23.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	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)