

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: P594807

Luminaire Tested: **ISS-PA1E-740-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594807
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-PA1E-740-U-T3-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 1050mA 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: 7931 lumens
Efficiency: N/A
Efficacy: 96.2 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

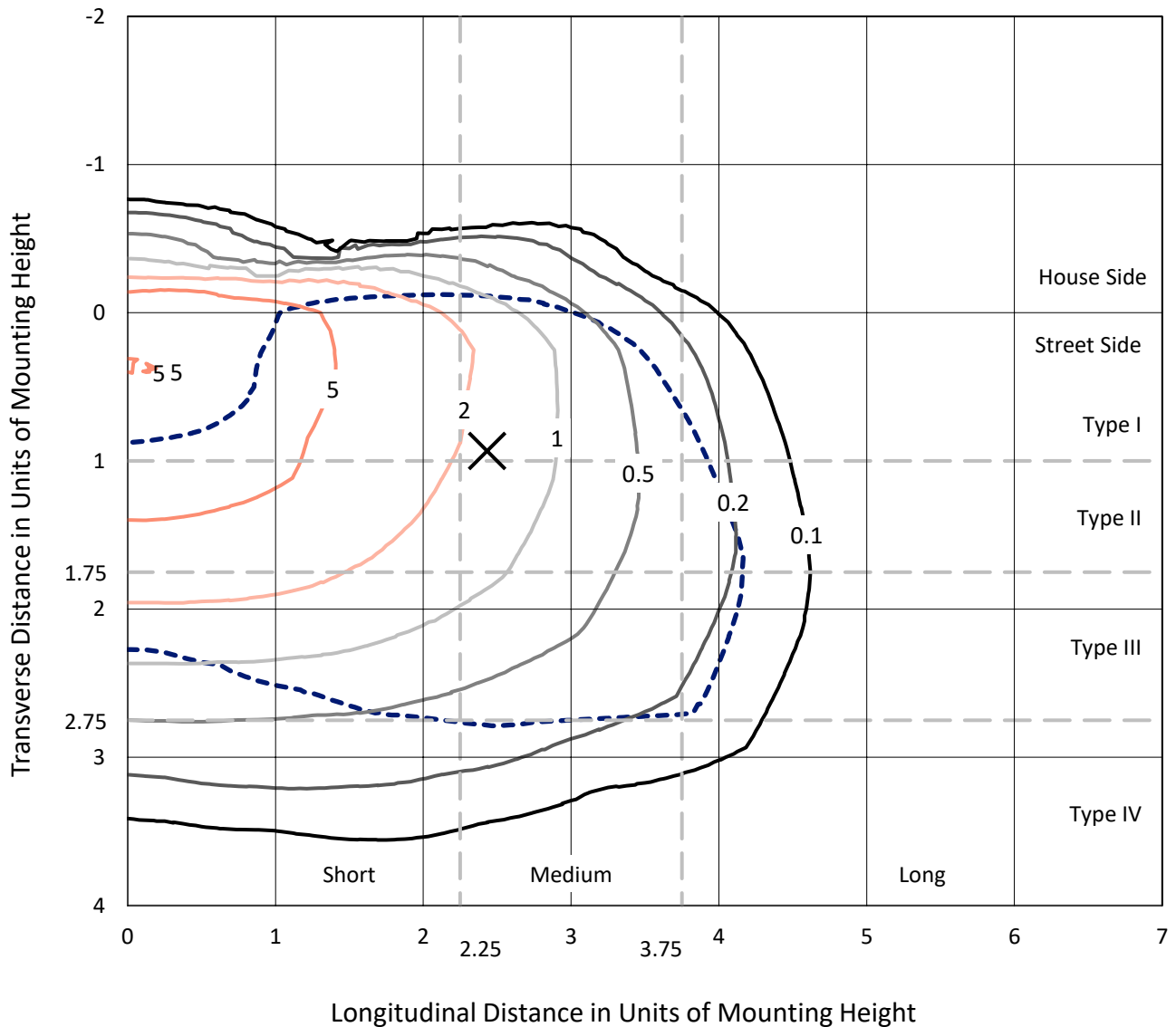
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

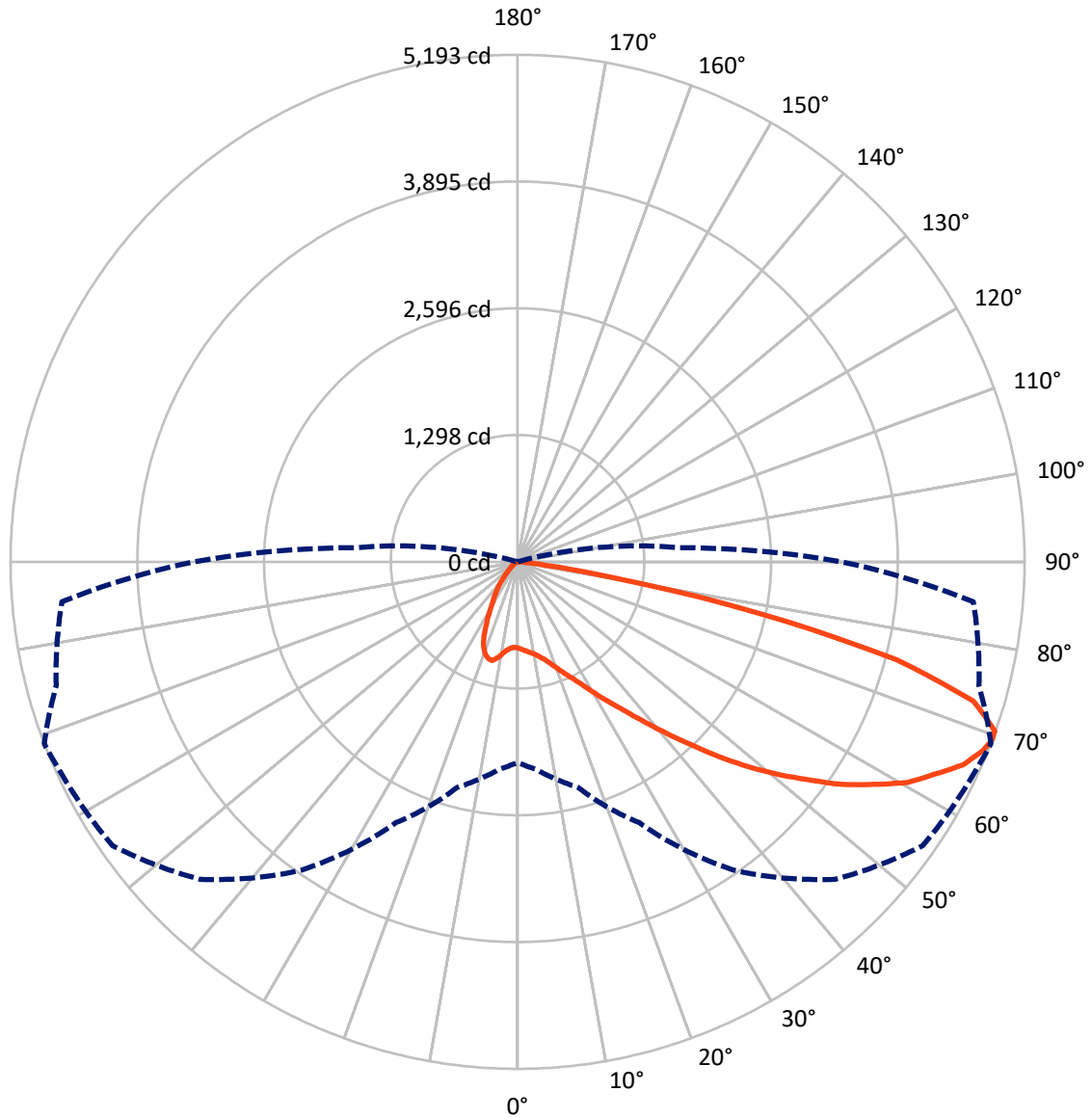
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.7 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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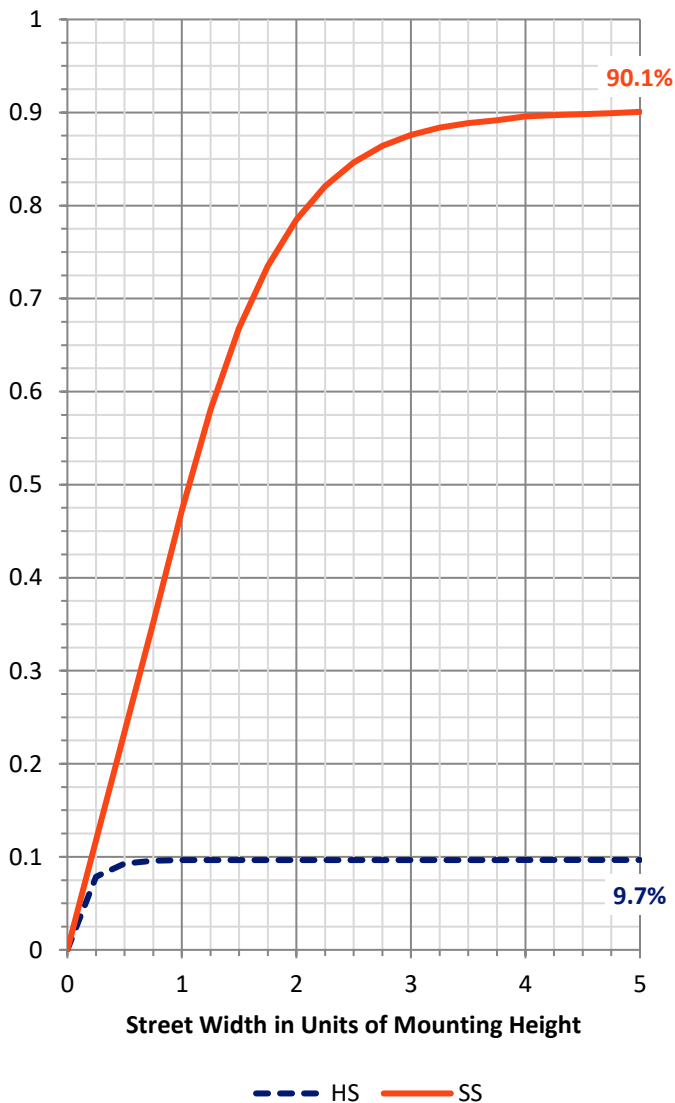
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.8	0.0	772.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	7158.2	0.0	7158.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	7931.0	0.0	7931.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.1
10°-20°	222.6	2.8
20°-30°	370.6	4.7
30°-40°	667.1	8.4
40°-50°	1209.7	15.3
50°-60°	1890.4	23.8
60°-70°	2187.1	27.6
70°-80°	1223.1	15.4
80°-90°	76.4	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°	7931.0	100.0
0°-180°	7931.0	100.0

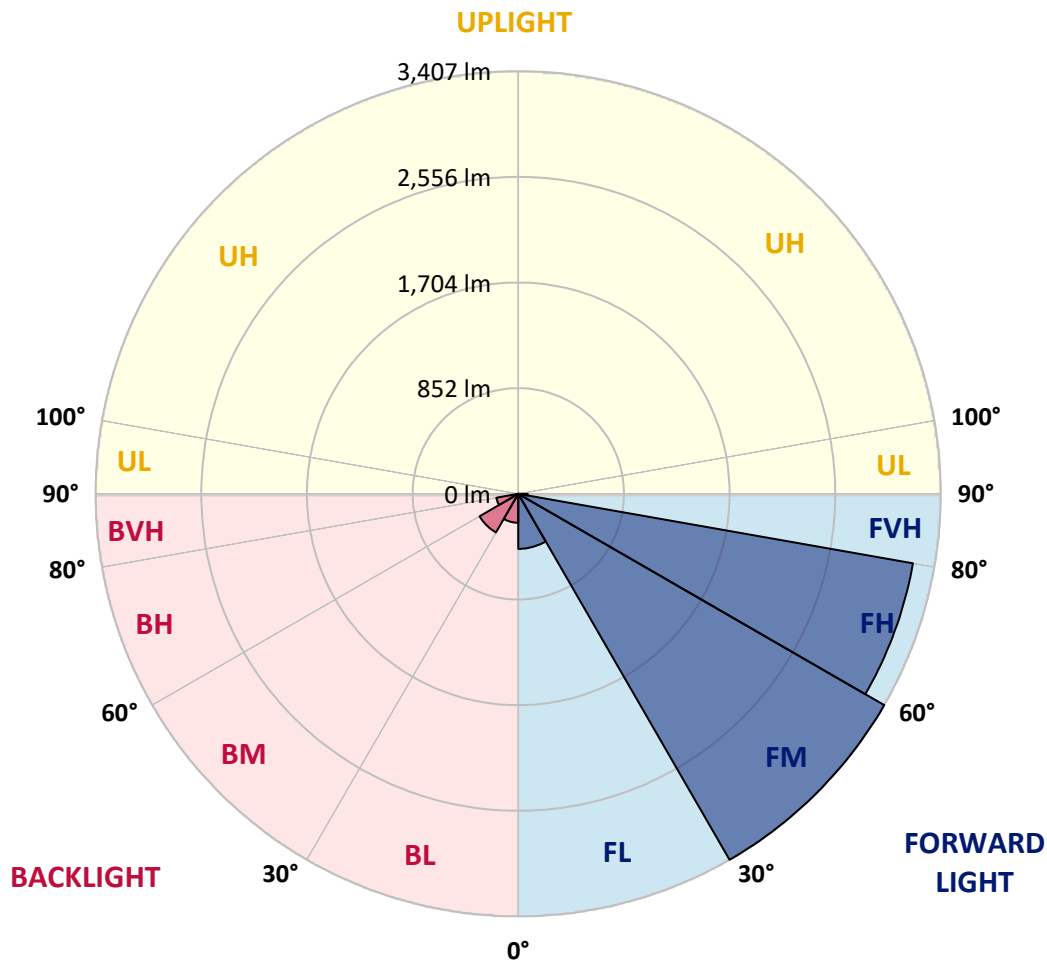


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.7	5.6			
FM (30°-60°)	3407.4	43.0			
FH (60°-80°)	3231.3	40.7			G2/5000
FVH (80°-90°)	75.8	1.0			G1/100
BL (0°-30°)	233.5	2.9	B1/500		
BM (30°-60°)	359.8	4.5	B1/1000		
BH (60°-80°)	178.9	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°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	913.9	913.9	913.9	908.6	911.3	908.6	906.0	898.0	900.7	898.0	890.1
5°	882.2	884.8	892.8	898.0	911.3	916.5	919.2	919.2	916.5	911.3	906.0
7.5°	821.4	821.4	829.4	845.2	871.6	900.7	924.5	937.7	940.3	940.3	932.4
10°	805.6	805.6	816.2	826.7	853.1	887.5	924.5	956.2	961.4	966.7	964.1
12.5°	797.7	800.3	810.9	829.4	863.7	895.4	935.0	979.9	995.8	1009.0	1011.6
15°	808.2	808.2	818.8	837.3	876.9	921.8	972.0	1022.2	1038.0	1056.5	1069.7
17.5°	824.1	829.4	834.7	853.1	890.1	945.6	1011.6	1077.7	1096.1	1119.9	1130.5
20°	850.5	850.5	855.8	871.6	911.3	977.3	1069.7	1149.0	1164.8	1180.7	1193.9
22.5°	882.2	884.8	884.8	898.0	942.9	1014.3	1119.9	1217.6	1244.1	1252.0	1257.3
25°	977.3	972.0	953.5	945.6	979.9	1056.5	1180.7	1299.5	1328.6	1336.5	1325.9
27.5°	1175.4	1154.3	1104.1	1051.2	1046.0	1122.6	1262.5	1402.5	1434.2	1436.9	1399.9
30°	1423.7	1426.3	1344.4	1230.8	1154.3	1193.9	1352.3	1532.0	1563.7	1550.4	1492.3
32.5°	1730.1	1716.8	1656.1	1492.3	1339.1	1304.8	1450.1	1666.7	1703.6	1682.5	1605.9
35°	1991.5	1999.5	1925.5	1780.2	1587.4	1476.5	1568.9	1817.2	1862.1	1825.1	1730.1
37.5°	2210.8	2221.3	2176.4	2057.6	1885.9	1711.6	1724.8	1994.2	2054.9	2018.0	1899.1
40°	2453.8	2461.7	2443.2	2313.8	2160.6	1991.5	1933.4	2197.6	2279.4	2229.3	2105.1
42.5°	2720.5	2749.6	2717.9	2614.9	2456.4	2311.1	2224.0	2445.8	2527.7	2496.0	2329.6
45°	3085.0	3087.7	3050.7	2947.7	2783.9	2665.1	2559.4	2710.0	2815.6	2776.0	2580.6
47.5°	3354.5	3372.9	3351.8	3280.5	3148.4	3069.2	2923.9	3000.5	3111.5	3061.3	2839.4
50°	3560.5	3610.7	3592.2	3613.3	3547.3	3512.9	3291.1	3301.6	3409.9	3367.7	3103.5
52.5°	3674.1	3737.4	3742.7	3851.0	3906.5	3991.0	3647.6	3631.8	3700.5	3663.5	3372.9
55°	3658.2	3674.1	3806.1	4004.2	4220.8	4413.6	3996.3	3930.3	4025.3	3922.3	3658.2
57.5°	3505.0	3544.6	3777.1	4022.7	4405.7	4685.7	4297.4	4223.4	4302.7	4165.3	3951.4
60°	3285.8	3343.9	3642.4	3993.7	4514.0	4849.4	4590.6	4516.6	4587.9	4421.5	4284.2
62.5°	3087.7	3114.1	3388.8	3872.2	4450.6	4841.5	4817.7	4749.1	4791.3	4617.0	4569.5
65°	2805.1	2815.6	3087.7	3652.9	4310.6	4788.7	4941.9	4968.3	5013.2	4780.8	4772.8
67.5°	2369.3	2393.0	2662.4	3269.9	4078.2	4685.7	5039.6	5092.4	5145.3	4867.9	4809.8
69°	2054.9	2131.5	2390.4	2947.7	3853.7	4598.5	5066.0	5150.5	5192.8	4891.7	4685.7
70°	1798.7	1864.8	2163.2	2699.4	3655.6	4500.8	5084.5	5142.6	5184.9	4841.5	4482.3
72.5°	903.3	987.8	1397.3	1970.4	2905.4	4054.4	4989.4	4926.0	4881.1	4453.2	3626.5
75°	348.7	361.9	599.6	1122.6	1817.2	2976.8	4260.4	4141.6	4009.5	3378.2	2150.0
77.5°	192.8	190.2	261.5	496.6	773.9	1455.4	2881.7	2691.5	2509.2	1814.6	871.6
80°	81.9	87.2	113.6	237.7	406.8	504.5	1399.9	1244.1	990.5	575.8	208.7
82.5°	50.2	52.8	79.2	145.3	282.6	192.8	454.3	388.3	285.3	155.8	50.2
85°	15.8	18.5	55.5	97.7	137.3	79.2	103.0	89.8	79.2	66.0	15.8
87.5°	2.6	2.6	21.1	52.8	37.0	13.2	10.6	18.5	29.1	31.7	5.3
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°	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2	882.2
2.5°	887.5	882.2	876.9	874.3	874.3	869.0	866.3	863.7	863.7	861.1	861.1
5°	898.0	892.8	887.5	884.8	879.6	876.9	876.9	876.9	874.3	876.9	879.6
7.5°	924.5	916.5	913.9	911.3	911.3	903.3	890.1	855.8	821.4	810.9	800.3
10°	961.4	958.8	958.8	958.8	940.3	871.6	776.5	692.0	647.1	610.1	610.1
12.5°	1014.3	1014.3	1011.6	1003.7	908.6	742.2	594.3	467.5	393.6	351.3	356.6
15°	1072.4	1069.7	1075.0	1024.8	800.3	573.2	359.2	253.6	213.9	208.7	208.7
17.5°	1133.1	1138.4	1133.1	969.4	657.7	353.9	213.9	192.8	187.5	187.5	187.5
20°	1196.5	1191.2	1183.3	874.3	478.1	221.9	184.9	179.6	174.3	171.7	171.7
22.5°	1259.9	1254.6	1201.8	752.8	298.5	182.3	174.3	163.8	155.8	153.2	153.2
25°	1320.7	1320.7	1167.5	596.9	203.4	171.7	158.5	147.9	140.0	132.1	132.1
27.5°	1397.3	1402.5	1112.0	417.3	171.7	158.5	142.6	126.8	116.2	110.9	110.9
30°	1484.4	1492.3	1022.2	272.1	155.8	140.0	124.1	105.7	89.8	84.5	81.9
32.5°	1587.4	1595.3	919.2	179.6	140.0	121.5	103.0	79.2	63.4	60.8	58.1
35°	1719.5	1701.0	795.0	142.6	121.5	103.0	79.2	55.5	44.9	42.3	42.3
37.5°	1883.3	1843.6	652.4	124.1	103.0	81.9	58.1	37.0	29.1	29.1	26.4
40°	2070.8	1959.8	504.5	110.9	87.2	63.4	37.0	23.8	18.5	18.5	18.5
42.5°	2276.8	2057.6	359.2	97.7	71.3	44.9	23.8	13.2	10.6	10.6	10.6
45°	2514.5	2147.4	245.6	84.5	60.8	31.7	13.2	5.3	5.3	5.3	5.3
47.5°	2752.2	2205.5	163.8	74.0	44.9	18.5	7.9	2.6	2.6	2.6	2.6
50°	2992.6	2250.4	126.8	63.4	31.7	10.6	2.6	0.0	0.0	0.0	0.0
52.5°	3206.5	2282.1	103.0	52.8	21.1	7.9	2.6	0.0	0.0	0.0	0.0
55°	3391.4	2284.7	89.8	42.3	15.8	5.3	0.0	0.0	0.0	0.0	0.0
57.5°	3579.0	2263.6	76.6	31.7	10.6	2.6	0.0	0.0	0.0	0.0	0.0
60°	3692.5	2208.1	60.8	23.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0
62.5°	3761.2	2115.7	47.5	15.8	5.3	2.6	0.0	0.0	0.0	0.0	0.0
65°	3721.6	1999.5	34.3	10.6	5.3	2.6	0.0	0.0	0.0	0.0	0.0
67.5°	3536.7	1819.9	23.8	7.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0
69°	3317.5	1656.1	21.1	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
70°	3124.7	1529.3	18.5	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	2327.0	985.2	15.8	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
75°	1307.4	330.2	10.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	491.3	84.5	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.3	21.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	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)