

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: P594563

Luminaire Tested: **ISS-PA1B-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-740-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5300 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

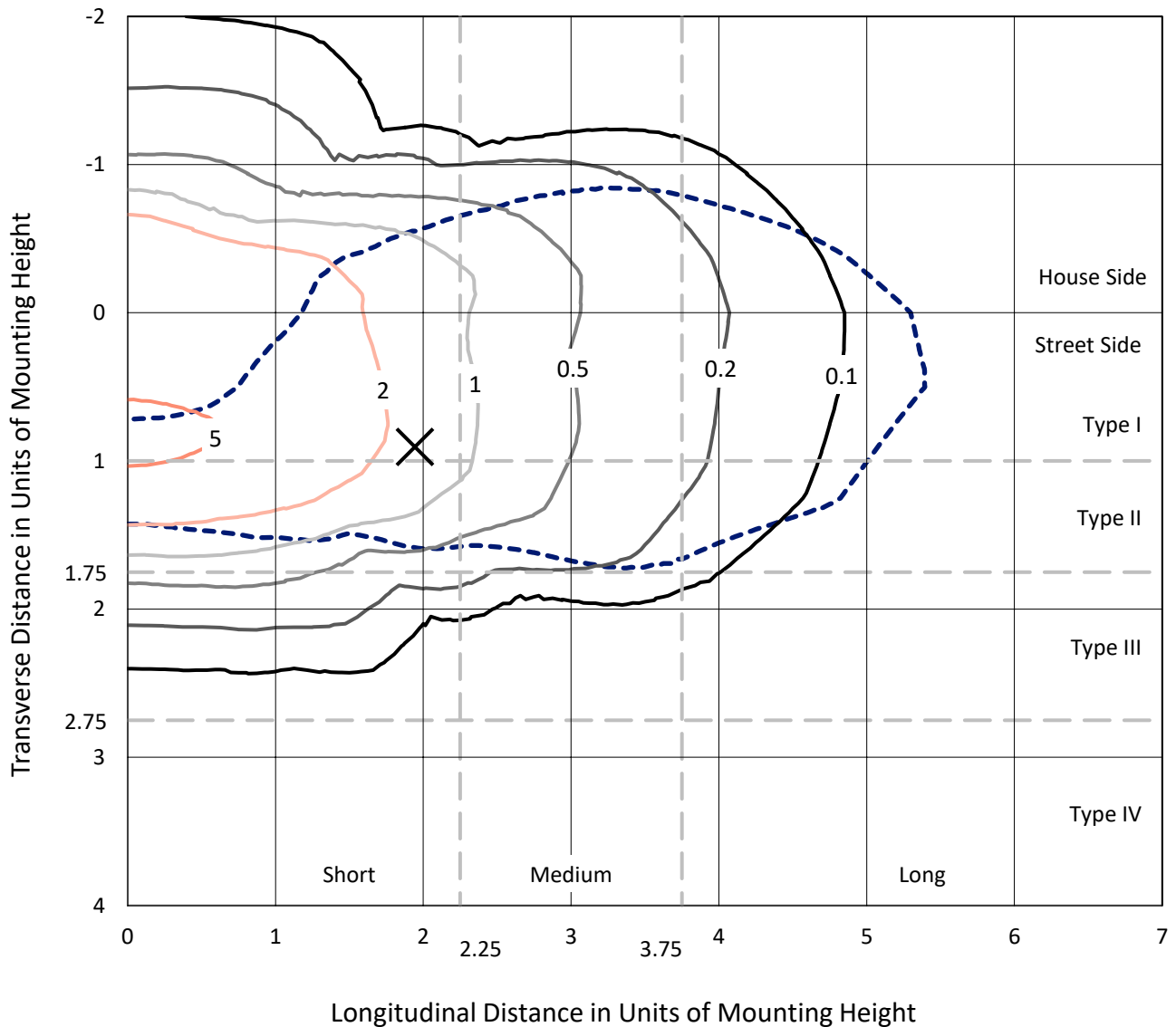
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

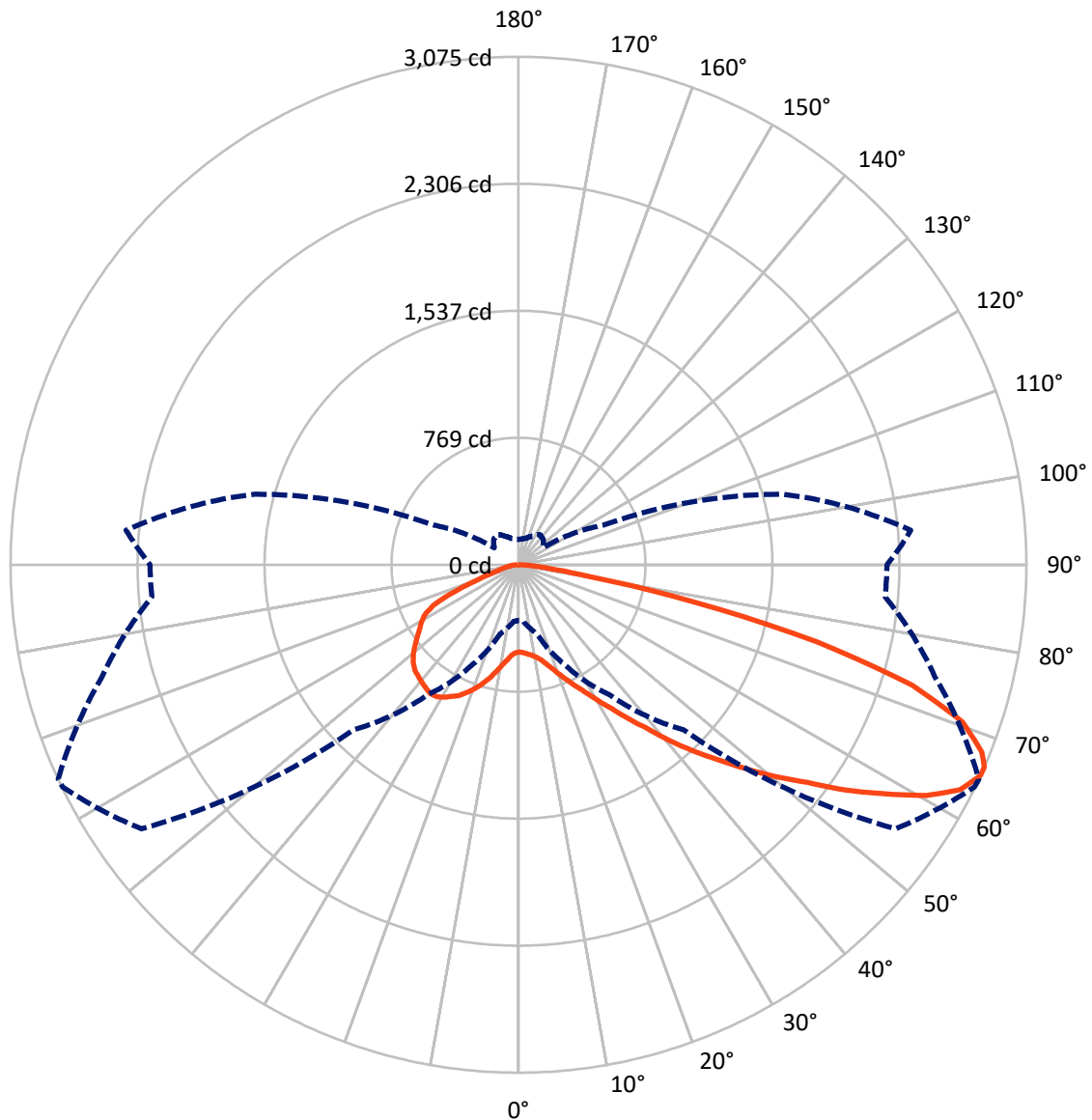
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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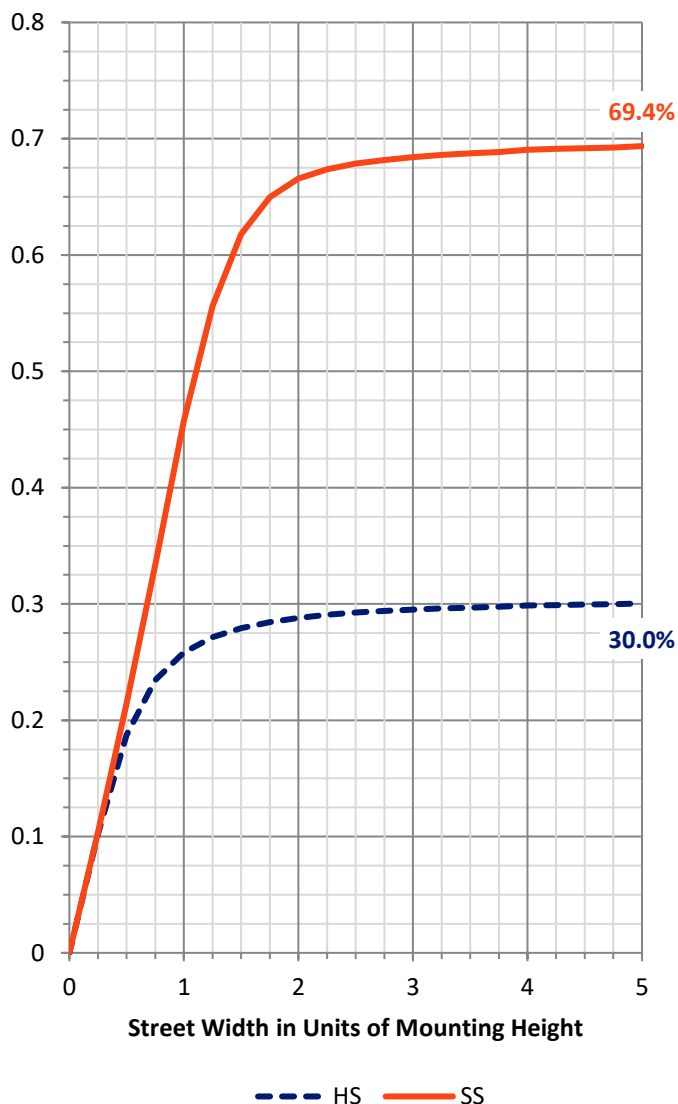
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1609.3	0.0	1609.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3690.7	0.0	3690.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	5300.0	0.0	5300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.0
10°-20°	187.8	3.5
20°-30°	367.9	6.9
30°-40°	601.1	11.3
40°-50°	954.1	18.0
50°-60°	1227.1	23.2
60°-70°	1106.6	20.9
70°-80°	686.4	13.0
80°-90°	115.0	2.2
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°	5300.0	100.0
0°-180°	5300.0	100.0

Coefficient of Utilization



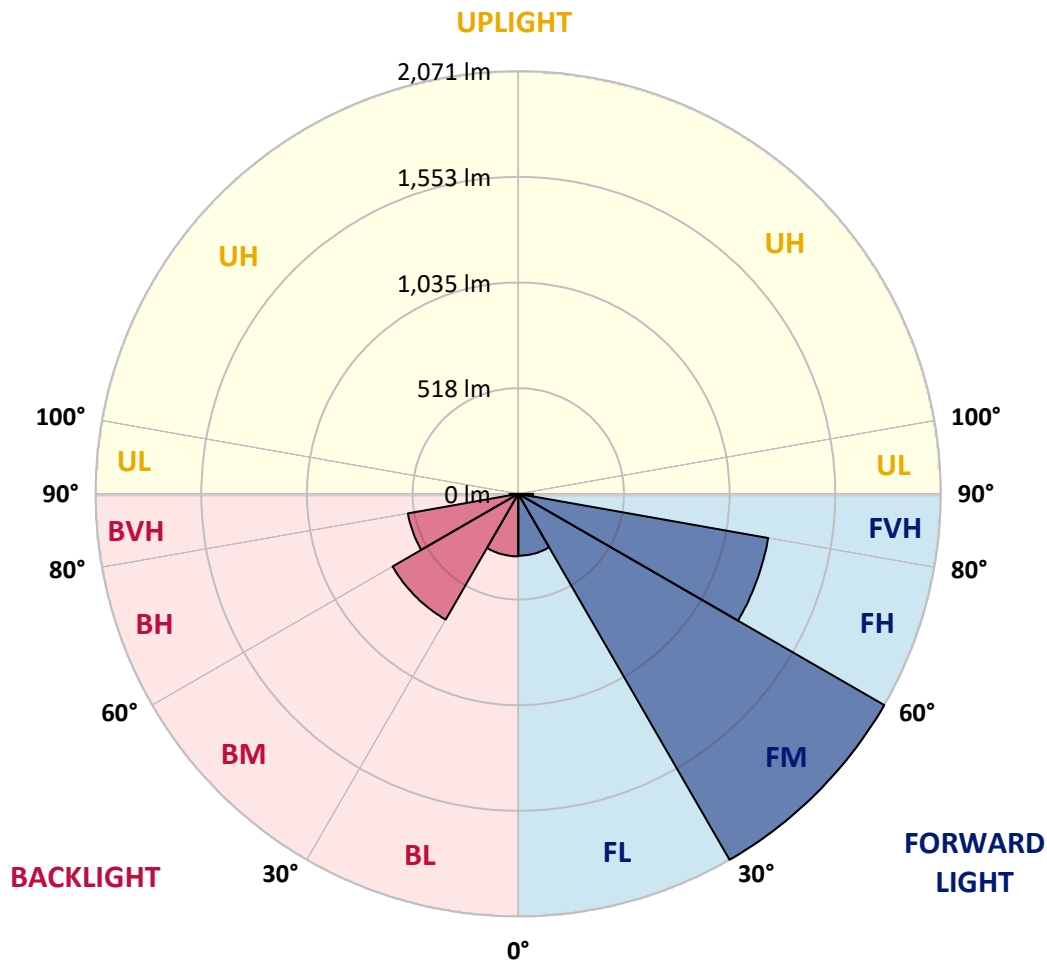
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.1	5.7			
FM (30°-60°)	2070.9	39.1			
FH (60°-80°)	1243.9	23.5			G1/1800
FVH (80°-90°)	72.7	1.4			G1/100
BL (0°-30°)	306.5	5.8	B1/500		
BM (30°-60°)	711.4	13.4	B1/1000		
BH (60°-80°)	549.1	10.4	B2/1000		G2/1000
BVH (80°-90°)	42.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	529.6	530.9	532.1	529.6	532.1	533.4	530.9	530.9	532.1	529.6	529.6
5°	525.7	527.0	529.6	530.9	536.0	538.6	539.9	539.9	541.1	539.9	541.1
7.5°	515.4	515.4	520.6	523.1	530.9	539.9	545.0	552.7	552.7	554.0	557.8
10°	525.7	525.7	529.6	533.4	539.9	547.6	555.3	564.3	566.8	575.8	581.0
12.5°	541.1	543.7	548.8	554.0	561.7	570.7	577.1	586.1	587.4	596.4	606.7
15°	566.8	569.4	572.0	578.4	588.7	600.3	611.8	618.3	620.8	626.0	633.7
17.5°	605.4	608.0	609.3	613.1	620.8	636.3	653.0	658.1	660.7	660.7	667.1
20°	671.0	669.7	667.1	659.4	659.4	673.5	696.7	705.7	708.2	703.1	699.2
22.5°	746.8	745.5	735.2	726.2	719.8	722.4	745.5	760.9	759.6	749.4	733.9
25°	845.8	848.3	831.6	808.5	789.2	784.1	798.2	813.6	816.2	796.9	771.2
27.5°	964.0	960.2	951.2	913.9	876.6	853.5	861.2	877.9	879.2	858.6	817.5
30°	1102.8	1096.4	1073.3	1034.7	976.9	944.7	938.3	952.5	956.3	921.6	862.5
32.5°	1257.1	1250.7	1221.1	1162.0	1099.0	1045.0	1024.4	1043.7	1041.1	1001.3	919.0
35°	1443.5	1442.2	1388.2	1314.9	1235.2	1163.3	1135.0	1135.0	1142.7	1083.6	991.0
37.5°	1692.8	1703.1	1623.4	1509.0	1397.2	1300.8	1253.2	1250.7	1251.9	1187.7	1072.0
40°	1917.8	1913.9	1867.6	1760.9	1597.7	1474.3	1403.6	1388.2	1392.0	1309.8	1177.4
42.5°	2047.6	2051.4	2039.9	1993.6	1850.9	1695.4	1574.6	1533.4	1534.7	1431.9	1277.6
45°	2128.6	2132.4	2131.1	2154.3	2097.7	1951.2	1778.9	1683.8	1678.7	1570.7	1395.9
47.5°	2174.8	2177.4	2194.1	2241.7	2287.9	2254.5	2005.2	1850.9	1840.6	1700.5	1514.2
50°	2123.4	2124.7	2191.5	2304.7	2417.8	2519.3	2236.5	2016.7	2014.2	1844.5	1629.8
52.5°	1853.5	1876.6	2024.4	2261.0	2514.2	2707.0	2503.9	2212.1	2190.3	1980.7	1745.5
55°	1512.9	1523.2	1692.8	1993.6	2496.2	2822.7	2705.7	2422.9	2407.5	2132.4	1858.6
57.5°	1181.2	1191.5	1393.3	1644.0	2221.1	2816.2	2848.4	2650.4	2615.7	2264.8	1971.7
60°	762.2	794.4	1028.3	1336.8	1798.2	2620.9	2920.3	2868.9	2836.8	2395.9	2068.1
62.5°	518.0	523.1	669.7	991.0	1345.8	2129.8	2915.2	3003.9	2998.7	2527.0	2164.5
65°	336.8	344.5	433.2	671.0	962.7	1413.9	2786.7	3069.4	3074.6	2608.0	2227.5
66°	285.4	290.5	358.6	564.3	843.2	1120.8	2673.6	3064.3	3074.6	2645.3	2246.8
67.5°	248.1	251.9	286.6	416.5	689.0	805.9	2379.2	2996.2	3025.7	2680.0	2271.2
70°	213.4	218.5	250.6	284.1	492.3	470.4	1506.4	2821.4	2850.9	2696.7	2286.7
72.5°	176.1	180.0	212.1	257.1	357.3	316.2	664.5	2415.2	2489.7	2635.0	2262.2
75°	138.8	141.4	171.0	214.7	273.8	246.8	289.2	1771.2	1865.1	2322.6	2167.1
77.5°	108.0	109.3	132.4	167.1	250.6	191.5	178.7	862.5	1091.3	1794.4	1908.8
80°	74.6	77.1	97.7	126.0	183.8	151.7	119.5	336.8	428.0	1191.5	1447.3
82.5°	48.8	50.1	66.8	95.1	122.1	145.2	78.4	163.2	180.0	548.8	627.3
85°	33.4	33.4	47.6	59.1	83.5	96.4	51.4	86.1	93.8	208.2	75.8
87.5°	16.7	16.7	23.1	30.8	39.8	37.3	30.8	30.8	30.8	68.1	21.9
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°	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3	528.3
2.5°	530.9	530.9	532.1	533.4	534.7	534.7	536.0	536.0	534.7	536.0	537.3
5°	542.4	543.7	546.3	550.1	556.6	563.0	569.4	573.3	577.1	578.4	575.8
7.5°	560.4	563.0	572.0	582.3	592.6	608.0	617.0	622.1	624.7	627.3	624.7
10°	583.6	588.7	601.5	619.5	637.5	656.8	667.1	674.8	676.1	678.7	676.1
12.5°	610.5	619.5	638.8	664.5	686.4	705.7	713.4	708.2	696.7	691.5	690.2
15°	642.7	651.7	678.7	710.8	736.5	745.5	733.9	717.2	704.4	703.1	701.8
17.5°	671.0	683.8	721.1	754.5	778.9	769.9	739.1	728.8	724.9	730.1	728.8
20°	706.9	717.2	754.5	795.6	808.5	773.8	751.9	745.5	741.7	741.7	739.1
22.5°	736.5	744.2	789.2	834.2	826.5	776.4	760.9	748.1	735.2	733.9	730.1
25°	771.2	773.8	821.3	870.2	829.1	778.9	751.9	730.1	717.2	713.4	714.7
27.5°	803.4	809.8	850.9	894.6	822.6	764.8	721.1	692.8	673.5	672.2	672.2
30°	844.5	844.5	881.8	921.6	808.5	728.8	671.0	629.8	614.4	613.1	610.5
32.5°	890.8	883.0	919.0	940.9	777.6	680.0	602.8	556.6	532.1	527.0	523.1
35°	955.0	938.3	964.0	944.7	746.8	610.5	516.7	464.0	446.0	438.3	438.3
37.5°	1029.6	1005.2	1032.1	933.2	699.2	529.6	426.7	386.9	367.6	356.0	359.9
40°	1117.0	1086.1	1101.6	920.3	647.8	439.6	352.2	327.8	304.6	289.2	289.2
42.5°	1219.8	1168.4	1180.0	907.5	574.6	361.2	304.6	287.9	269.9	254.5	258.4
45°	1318.8	1268.7	1257.1	894.6	497.4	308.5	285.4	273.8	257.1	239.1	239.1
47.5°	1433.2	1368.9	1325.2	871.5	421.6	291.8	290.5	273.8	241.6	215.9	213.4
50°	1541.1	1482.0	1386.9	836.8	379.2	305.9	289.2	249.4	218.5	201.8	200.5
52.5°	1655.5	1593.8	1437.0	794.4	357.3	299.5	266.1	228.8	205.7	188.9	185.1
55°	1768.7	1736.5	1482.0	753.2	322.6	278.9	246.8	215.9	191.5	176.1	173.5
57.5°	1897.2	1884.3	1520.6	712.1	268.6	253.2	232.7	206.9	183.8	172.2	171.0
60°	2009.0	2054.0	1566.9	681.2	228.8	233.9	226.2	205.7	188.9	176.1	176.1
62.5°	2127.3	2217.2	1608.0	641.4	199.2	222.4	227.5	204.4	182.5	171.0	171.0
65°	2230.1	2384.3	1650.4	568.1	178.7	213.4	223.7	190.2	164.5	155.5	153.0
66°	2273.8	2431.9	1663.3	523.1	171.0	206.9	217.2	182.5	156.8	149.1	147.8
67.5°	2325.2	2506.5	1678.7	426.7	159.4	192.8	203.1	171.0	144.0	138.8	136.2
70°	2397.2	2521.9	1669.7	278.9	138.8	165.8	181.2	153.0	128.5	124.7	120.8
72.5°	2404.9	2416.5	1579.7	176.1	120.8	142.7	159.4	137.5	113.1	109.3	106.7
75°	2277.7	2141.4	1336.8	126.0	106.7	126.0	140.1	119.5	93.8	88.7	86.1
77.5°	1944.8	1699.2	961.5	93.8	92.5	108.0	117.0	104.1	78.4	74.6	73.3
80°	1365.1	1153.0	482.0	70.7	73.3	90.0	97.7	87.4	65.6	60.4	57.8
82.5°	552.7	489.7	165.8	52.7	55.3	68.1	83.5	72.0	50.1	43.7	38.6
85°	63.0	106.7	72.0	36.0	37.3	46.3	56.6	43.7	29.6	24.4	20.6
87.5°	12.9	23.1	25.7	14.1	12.9	18.0	25.7	15.4	10.3	3.9	5.1
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)