

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: P594759

Luminaire Tested: **ISS-PA1D-830-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594759  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-830-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6940 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

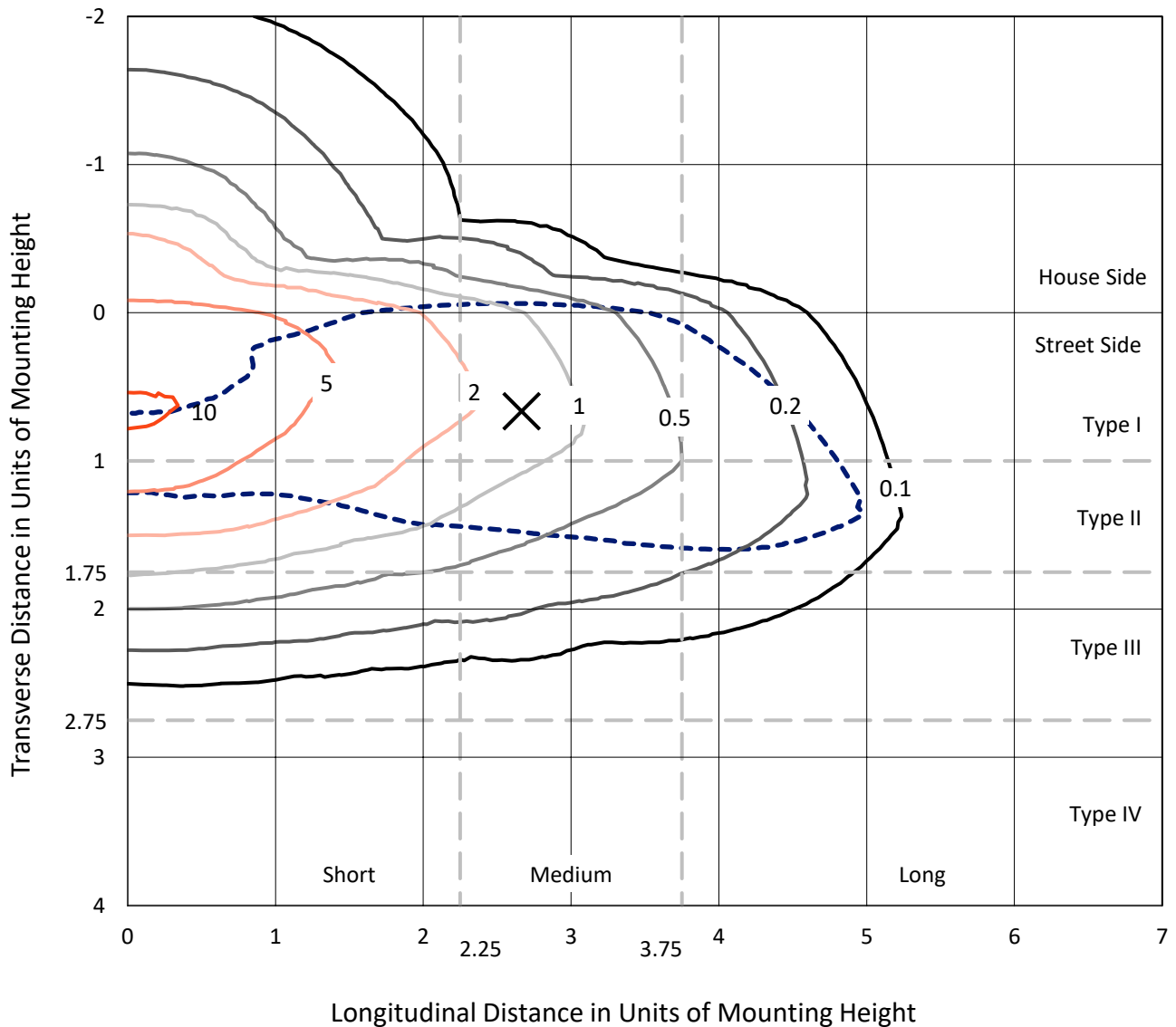
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

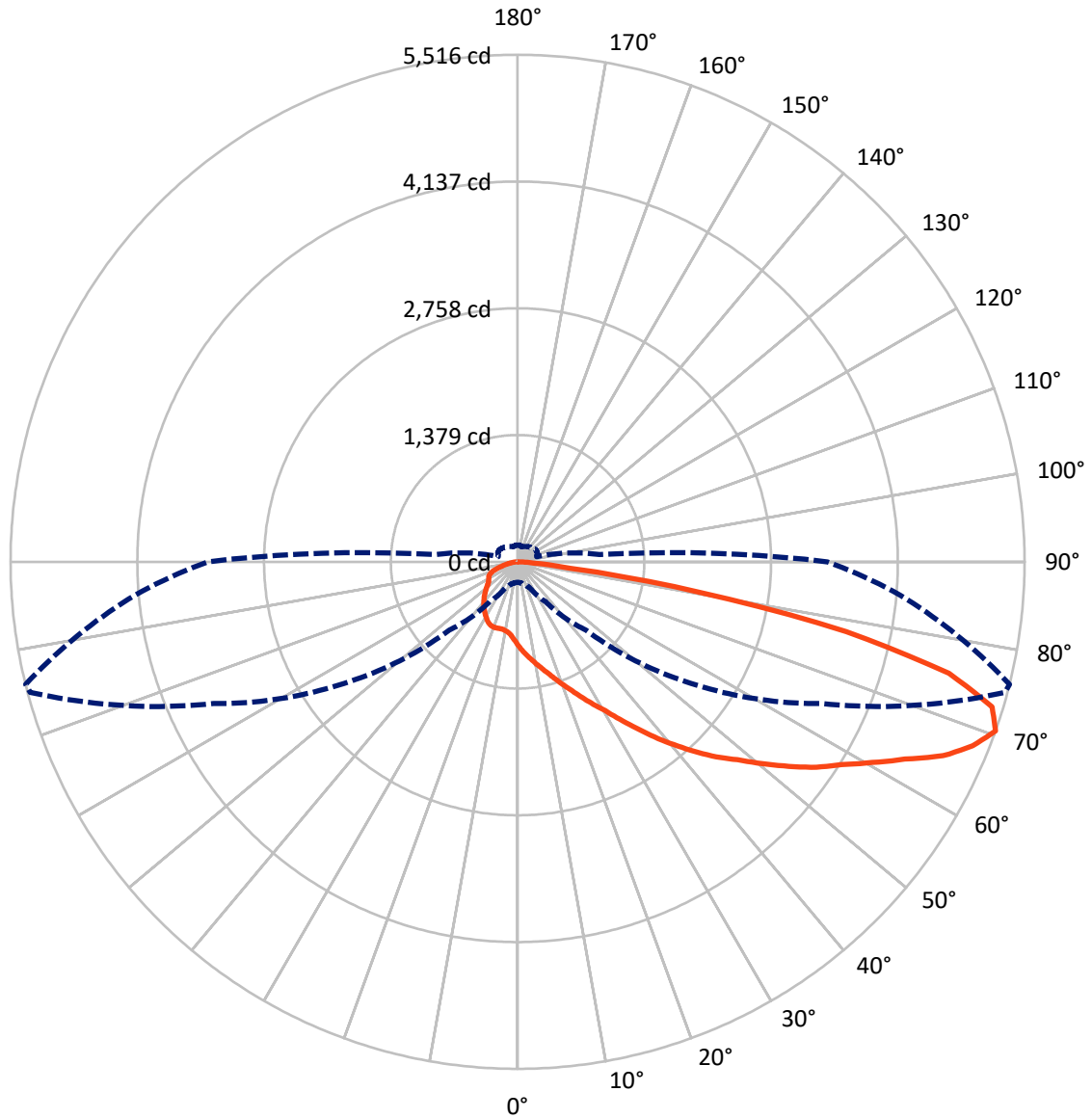
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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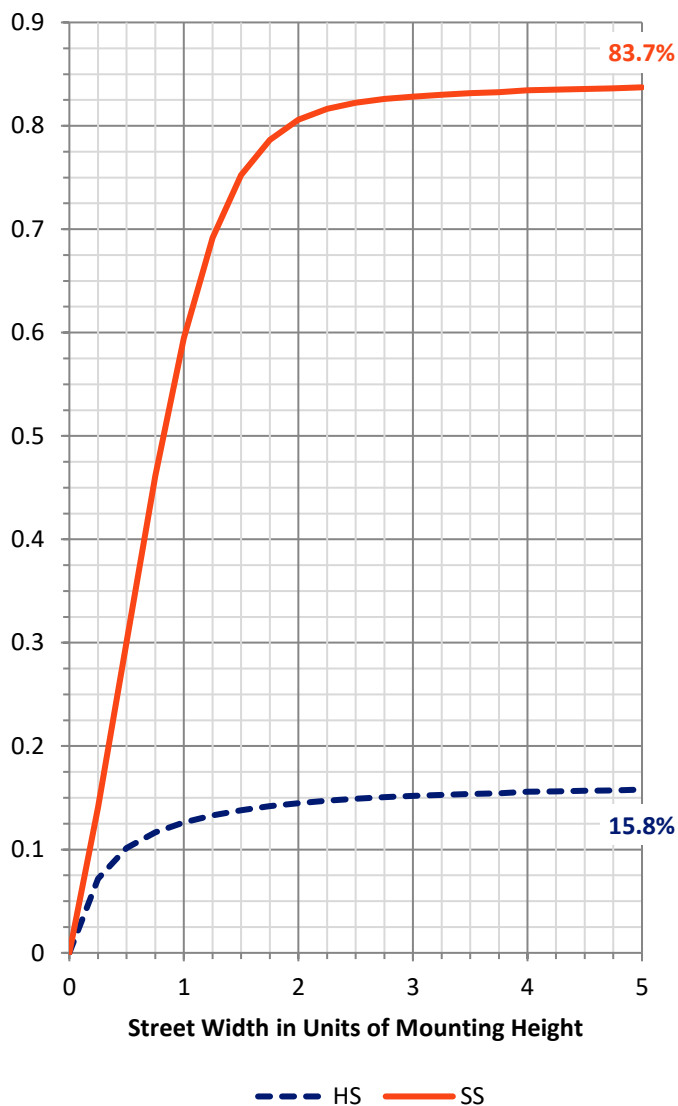
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1113.1	0.0	1113.1
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	5826.9	0.0	5826.9
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	6940.0	0.0	6940.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	1.3
10°-20°	292.8	4.2
20°-30°	539.6	7.8
30°-40°	904.1	13.0
40°-50°	1284.6	18.5
50°-60°	1483.2	21.4
60°-70°	1363.5	19.6
70°-80°	859.7	12.4
80°-90°	123.7	1.8
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°	6940.0	100.0
0°-180°	6940.0	100.0

**Coefficient of Utilization**

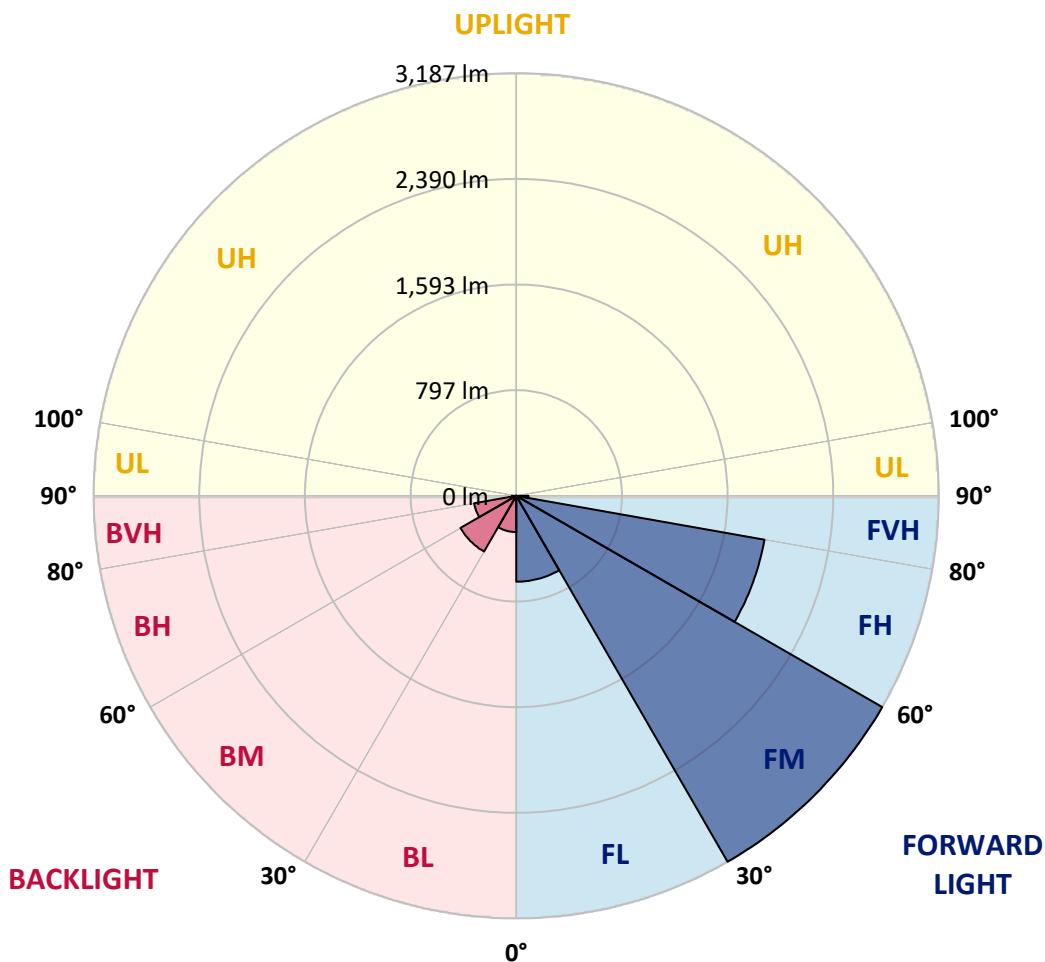


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.9	9.3			
FM (30°-60°)	3186.7	45.9			
FH (60°-80°)	1900.6	27.4			G2/5000
FVH (80°-90°)	91.7	1.3			G1/100
BL (0°-30°)	273.2	3.9	B1/500		
BM (30°-60°)	485.3	7.0	B1/1000		
BH (60°-80°)	322.6	4.6	B1/500		G1/500
BVH (80°-90°)	32.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4
2.5°	1095.9	1094.2	1089.2	1080.8	1074.1	1054.1	1027.4	1004.0	968.9	965.6	930.5
5°	1194.4	1187.7	1187.7	1179.4	1171.0	1149.3	1115.9	1074.1	1024.0	1020.7	953.9
7.5°	1241.2	1242.9	1239.5	1232.8	1234.5	1216.1	1186.1	1144.3	1075.8	1072.5	985.6
10°	1308.0	1306.3	1299.7	1294.6	1293.0	1276.3	1249.5	1211.1	1139.3	1132.6	1022.3
12.5°	1373.2	1368.1	1369.8	1368.1	1364.8	1348.1	1323.0	1284.6	1196.1	1192.7	1067.5
15°	1409.9	1408.2	1419.9	1423.3	1436.6	1421.6	1399.9	1356.4	1276.3	1262.9	1120.9
17.5°	1433.3	1431.6	1443.3	1470.0	1495.1	1495.1	1488.4	1441.6	1353.1	1343.1	1181.0
20°	1473.4	1480.1	1500.1	1521.8	1558.6	1565.3	1563.6	1543.5	1441.6	1431.6	1247.9
22.5°	1553.6	1550.2	1566.9	1600.3	1633.8	1643.8	1645.4	1645.4	1543.5	1525.2	1316.4
25°	1725.6	1717.3	1703.9	1700.6	1740.7	1739.0	1734.0	1745.7	1650.5	1637.1	1394.9
27.5°	2053.0	2034.7	1982.9	1879.3	1855.9	1864.3	1839.2	1840.9	1772.4	1755.7	1461.7
30°	2363.8	2355.4	2307.0	2181.7	2049.7	2002.9	1959.5	1941.1	1907.7	1879.3	1533.5
32.5°	2644.4	2646.1	2587.6	2450.6	2315.3	2168.3	2093.1	2054.7	2068.1	2043.0	1632.1
35°	2834.8	2819.8	2783.1	2691.2	2544.2	2403.9	2260.2	2175.0	2246.8	2218.4	1730.6
37.5°	2946.8	2935.1	2905.0	2839.9	2766.4	2631.0	2449.0	2318.7	2459.0	2417.2	1855.9
40°	3003.6	2986.9	2956.8	2930.1	2895.0	2821.5	2661.1	2482.4	2652.8	2616.0	1979.5
42.5°	3010.2	2998.6	2981.8	2968.5	2980.2	2970.2	2868.3	2672.8	2856.6	2816.5	2121.5
45°	3005.2	3013.6	2993.5	2970.2	2993.5	3078.7	3078.7	2863.2	3058.7	3028.6	2256.9
47.5°	3008.6	3000.2	2993.5	2986.9	2990.2	3107.1	3224.1	3042.0	3252.5	3217.4	2415.5
50°	2869.9	2881.6	2938.4	2963.5	2978.5	3113.8	3341.0	3235.8	3493.0	3449.6	2592.6
52.5°	2428.9	2435.6	2694.5	2881.6	2941.8	3087.1	3422.9	3451.3	3730.2	3696.8	2783.1
55°	1871.0	1906.0	2151.6	2609.3	2858.2	3042.0	3447.9	3591.6	3972.5	3945.7	2975.2
57.5°	1540.2	1545.2	1687.2	2096.5	2594.3	3000.2	3473.0	3720.2	4189.6	4159.6	3175.6
60°	1277.9	1266.2	1353.1	1617.0	2154.9	2833.2	3478.0	3822.1	4441.9	4431.8	3382.8
62.5°	938.8	952.2	1035.7	1259.6	1685.5	2494.1	3452.9	3909.0	4742.6	4729.2	3613.3
65°	576.3	593.0	694.9	900.4	1276.3	1979.5	3289.2	3954.1	5058.3	5088.4	3862.2
67.5°	305.7	317.4	377.5	544.6	875.3	1508.5	2895.0	3897.3	5325.6	5338.9	4101.1
70°	223.8	225.5	245.6	307.4	527.9	1049.1	2305.3	3650.1	5489.3	5516.0	4179.6
72.5°	195.4	197.1	205.5	220.5	287.3	639.8	1652.1	3219.1	5420.8	5397.4	4047.6
75°	177.1	177.1	183.8	188.8	210.5	354.1	1012.3	2634.4	4897.9	4846.1	3451.3
77.5°	152.0	152.0	158.7	165.4	182.1	228.9	529.5	1952.8	3745.3	3656.7	2360.4
80°	121.9	121.9	130.3	138.7	160.4	172.1	258.9	1306.3	2141.6	2011.3	1074.1
82.5°	83.5	90.2	105.2	115.3	133.6	121.9	152.0	564.6	674.9	584.7	242.2
85°	50.1	53.5	75.2	86.9	100.2	65.1	93.5	217.2	202.1	177.1	55.1
87.5°	5.0	8.4	30.1	35.1	35.1	18.4	40.1	51.8	58.5	60.1	13.4
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°	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4	910.4
2.5°	910.4	890.4	852.0	816.9	781.8	758.4	735.0	726.7	715.0	706.6	713.3
5°	918.8	877.0	803.5	741.7	699.9	668.2	653.2	644.8	638.1	636.5	634.8
7.5°	928.8	867.0	768.4	699.9	659.8	644.8	641.5	641.5	641.5	643.1	644.8
10°	950.5	870.3	750.1	676.6	654.8	651.5	653.2	659.8	659.8	661.5	661.5
12.5°	975.6	878.7	736.7	673.2	659.8	661.5	663.2	666.5	666.5	671.5	669.9
15°	1012.3	895.4	735.0	676.6	664.9	661.5	661.5	659.8	659.8	659.8	663.2
17.5°	1059.1	918.8	736.7	676.6	659.8	653.2	648.2	643.1	636.5	639.8	636.5
20°	1105.9	947.2	736.7	668.2	646.5	629.8	614.7	606.4	598.0	596.4	598.0
22.5°	1164.3	980.6	728.3	649.8	618.1	594.7	573.0	561.3	547.9	542.9	539.6
25°	1214.5	1007.3	711.6	623.1	586.3	552.9	524.5	504.5	487.8	484.4	484.4
27.5°	1266.2	1030.7	686.6	589.7	541.2	504.5	472.8	447.7	431.0	429.3	427.6
30°	1314.7	1050.7	653.2	552.9	501.2	457.7	421.0	399.3	384.2	375.9	370.9
32.5°	1378.2	1077.5	621.4	516.2	454.4	410.9	377.5	359.2	339.1	325.7	320.7
35°	1458.3	1109.2	586.3	476.1	412.6	369.2	349.1	322.4	297.3	282.3	277.3
37.5°	1548.6	1154.3	549.6	434.3	370.9	339.1	327.4	285.7	258.9	253.9	252.2
40°	1660.5	1197.8	507.8	390.9	330.8	322.4	302.4	258.9	245.6	243.9	242.2
42.5°	1772.4	1244.5	467.7	347.5	299.0	302.4	274.0	252.2	240.6	237.2	235.5
45°	1902.7	1291.3	427.6	309.0	274.0	274.0	258.9	245.6	235.5	232.2	232.2
47.5°	2039.7	1338.1	384.2	275.6	255.6	245.6	247.2	237.2	230.5	227.2	225.5
50°	2211.7	1383.2	344.1	252.2	243.9	230.5	235.5	228.9	225.5	222.2	220.5
52.5°	2373.8	1403.2	307.4	238.9	237.2	223.8	225.5	222.2	220.5	215.5	213.8
55°	2532.5	1398.2	279.0	232.2	228.9	222.2	218.8	217.2	215.5	210.5	208.8
57.5°	2709.6	1391.5	260.6	230.5	223.8	217.2	217.2	212.2	205.5	205.5	205.5
60°	2893.3	1369.8	252.2	230.5	222.2	217.2	213.8	208.8	202.1	203.8	202.1
62.5°	3100.5	1328.1	247.2	235.5	223.8	215.5	212.2	205.5	197.1	198.8	197.1
65°	3282.5	1242.9	243.9	240.6	227.2	217.2	208.8	200.5	190.4	192.1	190.4
67.5°	3406.2	1099.2	233.9	243.9	232.2	215.5	205.5	193.8	180.4	187.1	185.4
70°	3371.1	893.7	215.5	237.2	237.2	217.2	200.5	185.4	170.4	183.8	178.7
72.5°	3098.8	671.5	180.4	213.8	233.9	217.2	190.4	172.1	158.7	167.1	157.0
75°	2544.2	456.0	143.7	170.4	218.8	218.8	182.1	158.7	142.0	137.0	133.6
77.5°	1587.0	284.0	111.9	125.3	183.8	217.2	173.7	142.0	118.6	115.3	111.9
80°	628.1	152.0	88.5	90.2	135.3	198.8	162.0	120.3	95.2	91.9	85.2
82.5°	143.7	76.8	61.8	60.1	83.5	162.0	147.0	95.2	73.5	73.5	61.8
85°	43.4	40.1	40.1	38.4	41.8	83.5	113.6	65.1	50.1	35.1	30.1
87.5°	11.7	16.7	15.0	13.4	13.4	11.7	36.8	16.7	10.0	5.0	3.3
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)