

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: P594070

Luminaire Tested: **ISC-PA1B-740-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-740-U-T3
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5240 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

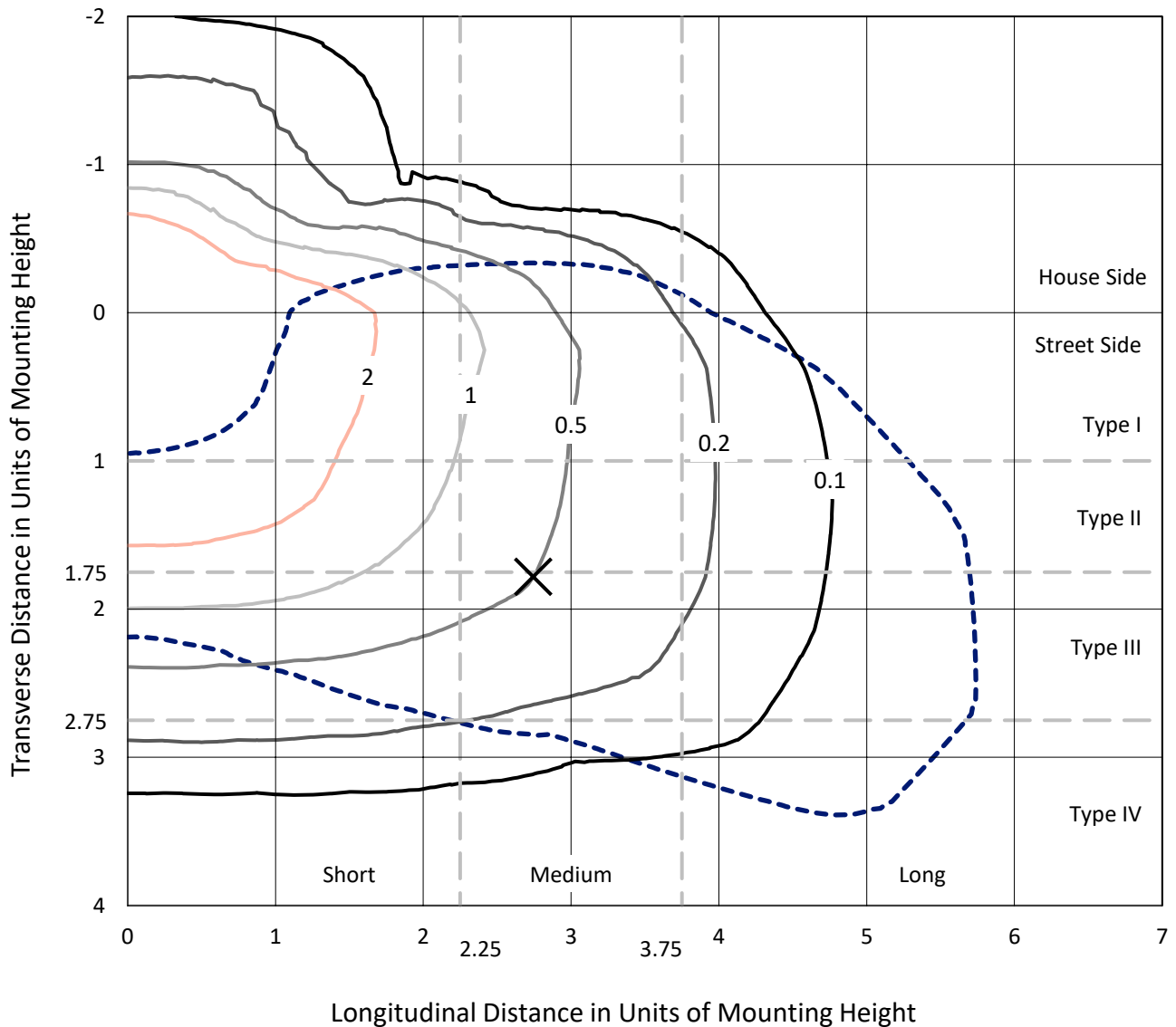
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

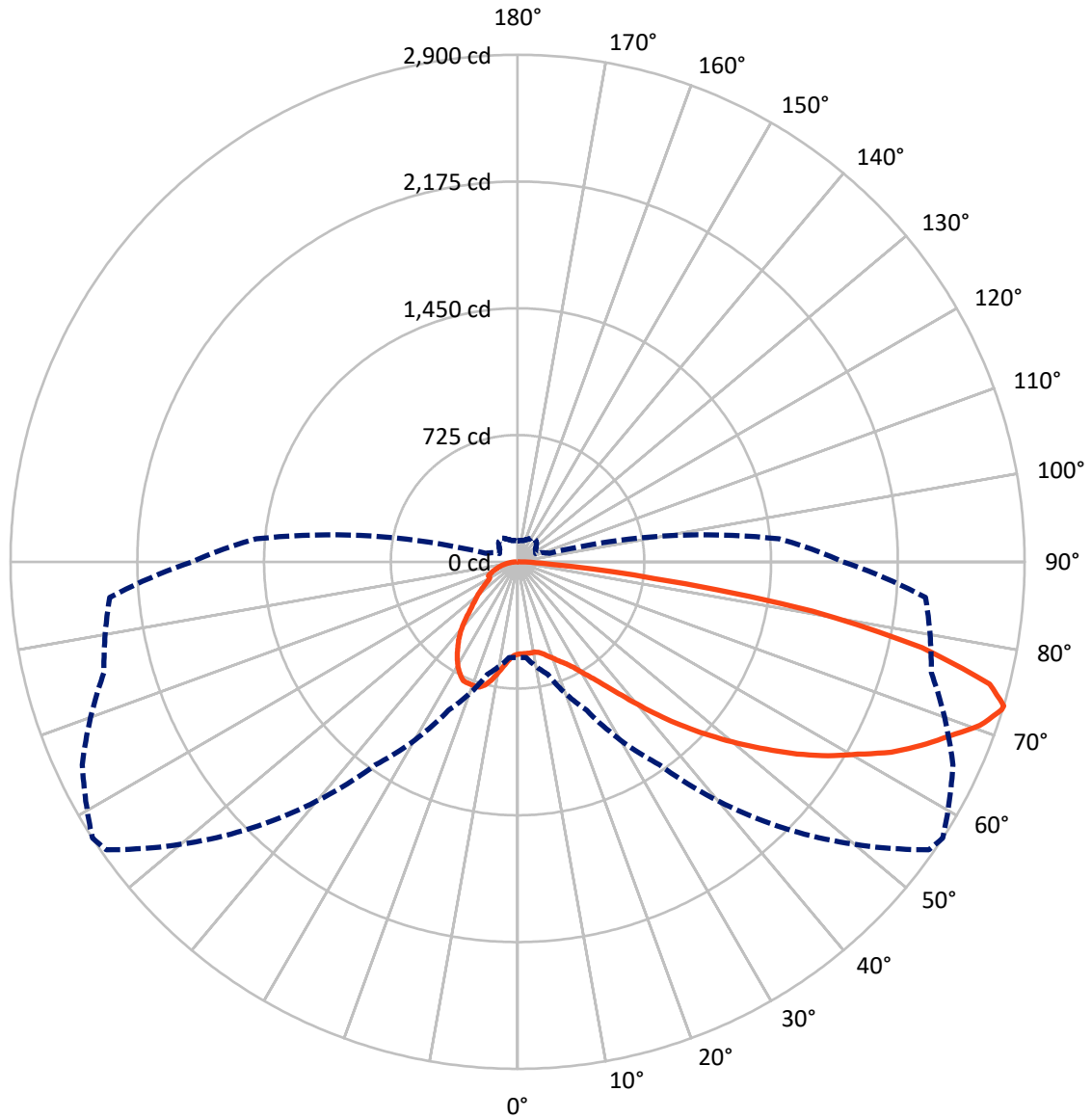
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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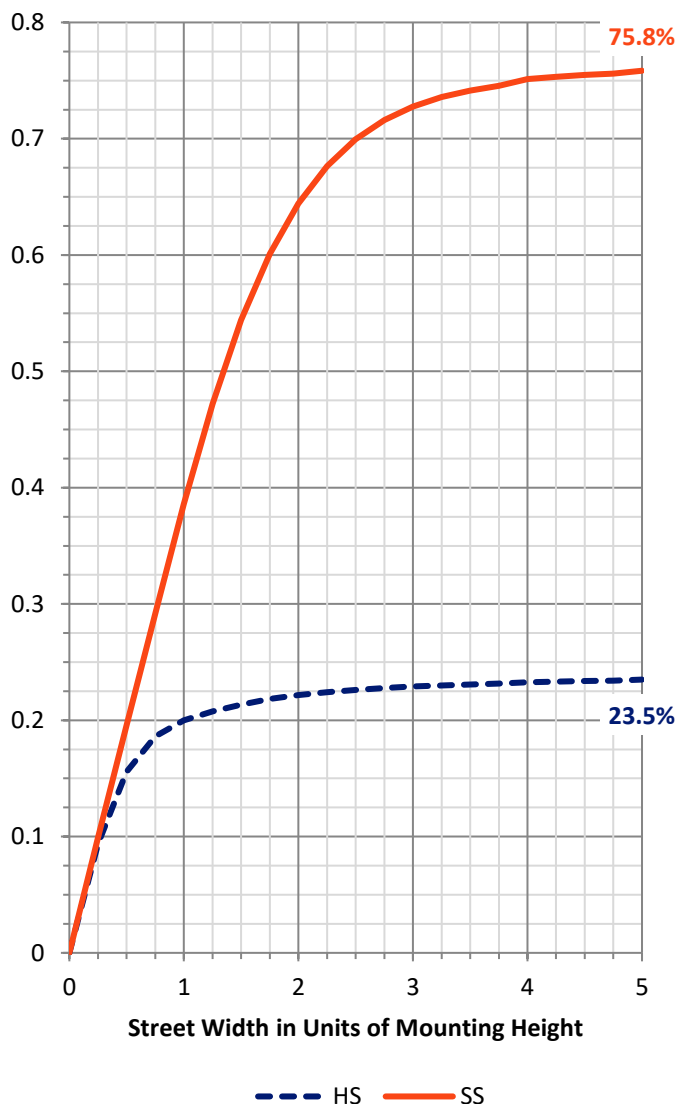
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.1	0.0	1250.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3989.9	0.0	3989.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	5240.0	0.0	5240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.0
10°-20°	173.4	3.3
20°-30°	320.0	6.1
30°-40°	494.2	9.4
40°-50°	743.8	14.2
50°-60°	1088.7	20.8
60°-70°	1285.6	24.5
70°-80°	920.4	17.6
80°-90°	161.3	3.1
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°	5240.0	100.0
0°-180°	5240.0	100.0

Coefficient of Utilization

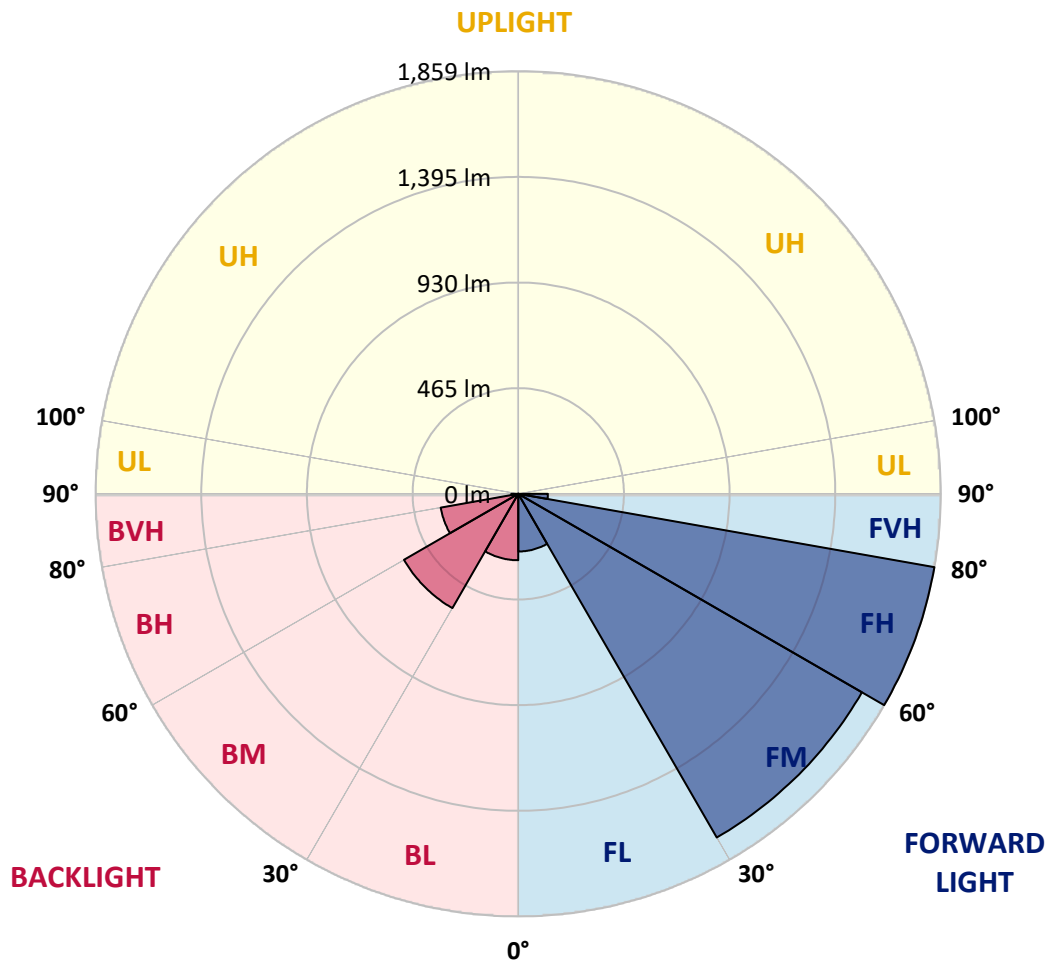


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.9	4.8			
FM (30°-60°)	1746.1	33.3			
FH (60°-80°)	1859.4	35.5			G2/5000
FVH (80°-90°)	130.5	2.5			G2/225
BL (0°-30°)	292.2	5.6	B1/500		
BM (30°-60°)	580.5	11.1	B1/1000		
BH (60°-80°)	346.6	6.6	B1/500		G1/500
BVH (80°-90°)	30.8	0.6			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9
2.5°	521.5	524.1	522.8	524.1	527.9	525.4	525.4	526.6	527.9	526.6	529.2
5°	499.7	501.0	503.5	508.7	517.7	520.2	526.6	526.6	529.2	531.8	535.6
7.5°	463.7	466.3	471.4	476.6	492.0	507.4	524.1	526.6	535.6	542.1	544.6
10°	457.3	459.9	461.1	468.8	484.3	499.7	520.2	525.4	542.1	552.3	563.9
12.5°	450.9	453.4	457.3	467.6	486.8	503.5	525.4	530.5	551.1	571.6	585.7
15°	456.0	457.3	461.1	471.4	490.7	513.8	542.1	545.9	569.0	594.7	616.6
17.5°	468.8	470.1	468.8	477.8	495.8	522.8	561.3	567.8	596.0	621.7	643.5
20°	498.4	499.7	494.5	494.5	507.4	534.4	581.9	590.9	625.6	653.8	675.7
22.5°	562.6	560.0	547.2	530.5	530.5	552.3	605.0	617.8	661.5	684.6	703.9
25°	653.8	653.8	633.3	602.4	581.9	579.3	632.0	646.1	697.5	725.7	737.3
27.5°	764.3	765.6	732.2	691.1	651.2	632.0	670.5	684.6	742.4	772.0	775.8
30°	861.9	863.2	829.8	791.3	742.4	700.1	721.9	737.3	804.1	827.2	814.4
32.5°	959.5	960.8	937.7	885.0	833.6	781.0	787.4	796.4	864.5	886.3	865.8
35°	1044.3	1048.2	1025.0	985.2	931.3	883.7	872.2	873.5	935.1	949.3	922.3
37.5°	1130.4	1130.4	1116.2	1079.0	1032.7	980.1	964.7	968.5	1023.8	1037.9	999.3
40°	1239.5	1244.7	1237.0	1190.7	1138.1	1094.4	1079.0	1084.1	1144.5	1136.8	1095.7
42.5°	1371.9	1383.4	1370.6	1320.5	1264.0	1215.1	1215.1	1215.1	1266.5	1267.8	1206.2
45°	1541.4	1541.4	1528.6	1484.9	1410.4	1361.6	1344.9	1348.7	1393.7	1398.8	1326.9
47.5°	1682.7	1695.5	1681.4	1649.3	1590.2	1544.0	1491.3	1484.9	1522.1	1522.1	1460.5
50°	1797.0	1820.1	1808.6	1822.7	1780.3	1757.2	1649.3	1631.3	1644.2	1657.0	1588.9
52.5°	1892.1	1910.1	1906.2	1947.3	1967.9	1980.7	1809.9	1781.6	1791.9	1790.6	1728.9
55°	1898.5	1904.9	1962.7	2055.2	2136.1	2196.5	1971.7	1940.9	1930.6	1925.5	1877.9
57.5°	1861.3	1865.1	1980.7	2089.9	2265.9	2335.2	2124.6	2093.7	2079.6	2061.6	2042.4
60°	1771.3	1790.6	1942.2	2110.4	2342.9	2443.1	2267.2	2235.0	2224.8	2186.2	2229.9
62.5°	1657.0	1666.0	1817.6	2068.1	2353.2	2489.4	2417.4	2398.2	2366.1	2310.8	2396.9
65°	1495.2	1493.9	1627.5	1943.5	2300.6	2512.5	2544.6	2534.3	2494.5	2399.5	2545.9
67.5°	1228.0	1257.5	1388.6	1722.5	2173.4	2535.6	2674.3	2661.5	2598.6	2479.1	2616.5
70°	936.4	954.4	1103.4	1391.1	1920.3	2472.7	2801.5	2805.4	2691.0	2495.8	2585.7
72.5°	597.3	628.1	746.3	1013.5	1537.6	2238.9	2877.3	2895.3	2742.4	2472.7	2394.3
73°	547.2	549.8	665.4	937.7	1418.1	2155.4	2872.2	2900.4	2747.6	2449.6	2341.7
75°	326.3	340.4	409.8	623.0	1012.2	1731.5	2733.4	2789.9	2720.6	2346.8	2052.6
77.5°	152.9	163.1	201.7	328.8	551.1	1041.7	2298.0	2364.8	2411.0	2053.9	1564.5
80°	80.9	82.2	98.9	165.7	295.4	429.0	1601.8	1712.2	1777.8	1546.5	1052.0
82.5°	68.1	68.1	77.1	106.6	188.8	167.0	660.2	786.1	963.4	761.7	413.6
85°	55.2	56.5	77.1	79.6	134.9	86.1	158.0	197.8	373.8	336.5	46.2
87.5°	18.0	20.6	43.7	56.5	71.9	33.4	39.8	43.7	43.7	64.2	15.4
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°	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9
2.5°	530.5	530.5	531.8	533.1	535.6	535.6	538.2	539.5	542.1	543.3	539.5
5°	535.6	538.2	540.8	548.5	557.5	565.2	572.9	579.3	585.7	589.6	588.3
7.5°	549.8	553.6	563.9	578.0	596.0	607.6	619.1	630.7	635.8	638.4	638.4
10°	569.0	576.7	596.0	619.1	639.7	657.7	666.7	674.4	676.9	679.5	676.9
12.5°	596.0	606.3	635.8	665.4	688.5	697.5	696.2	685.9	671.8	669.2	666.7
15°	630.7	643.5	676.9	711.6	729.6	718.0	688.5	678.2	675.7	683.4	680.8
17.5°	660.2	675.7	716.8	752.7	748.9	709.0	700.1	705.2	702.6	703.9	703.9
20°	688.5	710.3	754.0	778.4	745.0	719.3	711.6	705.2	697.5	700.1	697.5
22.5°	724.5	739.9	790.0	791.3	739.9	719.3	702.6	689.8	687.2	688.5	689.8
25°	752.7	777.1	820.8	782.3	739.9	698.8	675.7	673.1	674.4	682.1	679.5
27.5°	791.3	815.7	845.2	777.1	709.0	665.4	656.4	655.1	646.1	648.7	648.7
30°	827.2	856.8	858.1	777.1	670.5	637.1	624.3	601.1	581.9	585.7	584.5
32.5°	876.0	901.7	860.6	746.3	626.8	599.9	565.2	529.2	520.2	525.4	526.6
35°	932.6	953.1	863.2	694.9	583.2	547.2	484.3	463.7	462.4	466.3	470.1
37.5°	1007.1	1018.6	882.5	635.8	540.8	465.0	416.2	411.0	399.5	391.8	393.1
40°	1098.3	1084.1	919.7	583.2	490.7	390.5	369.9	355.8	334.0	312.1	316.0
42.5°	1199.7	1159.9	931.3	540.8	422.6	344.2	325.0	303.1	276.2	253.0	251.8
45°	1308.9	1244.7	921.0	507.4	354.5	309.6	289.0	263.3	231.2	211.9	211.9
47.5°	1438.6	1325.6	888.9	480.4	307.0	278.7	253.0	227.4	205.5	187.5	187.5
50°	1581.2	1419.4	865.8	432.9	273.6	249.2	223.5	203.0	186.3	172.1	172.1
52.5°	1731.5	1508.0	846.5	363.5	244.1	222.2	204.2	187.5	173.4	155.4	152.9
55°	1884.4	1592.8	855.5	296.7	217.1	203.0	191.4	174.7	169.6	165.7	163.1
57.5°	2043.7	1685.3	877.3	242.8	194.0	192.7	187.5	199.1	210.7	203.0	199.1
60°	2168.2	1757.2	879.9	204.2	179.8	203.0	228.6	232.5	201.7	183.7	182.4
62.5°	2267.2	1825.3	819.5	177.3	183.7	238.9	244.1	205.5	174.7	167.0	167.0
65°	2318.5	1849.7	659.0	161.8	191.4	228.6	220.9	185.0	163.1	161.8	161.8
67.5°	2292.8	1830.4	461.1	145.1	169.6	197.8	197.8	169.6	150.3	156.7	154.1
70°	2169.5	1735.4	304.4	131.0	149.0	178.5	183.7	158.0	140.0	143.9	140.0
72.5°	1912.6	1565.8	200.4	115.6	128.5	158.0	170.8	145.1	128.5	127.2	123.3
73°	1862.5	1501.6	188.8	113.0	124.6	152.9	167.0	142.6	125.9	122.0	119.5
75°	1579.9	1252.4	142.6	101.5	110.5	137.4	155.4	133.6	115.6	110.5	107.9
77.5°	1150.9	868.3	106.6	86.1	92.5	119.5	137.4	122.0	102.8	96.3	95.1
80°	718.0	472.7	79.6	69.4	73.2	100.2	120.7	109.2	88.6	80.9	79.6
82.5°	281.3	154.1	55.2	51.4	53.9	75.8	101.5	95.1	74.5	68.1	64.2
85°	46.2	52.7	36.0	34.7	34.7	53.9	77.1	73.2	50.1	43.7	38.5
87.5°	12.8	24.4	14.1	12.8	12.8	23.1	42.4	33.4	20.6	16.7	15.4
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)