

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: LUMARK

Report Number: P960279

Luminaire Tested: **NAV-SB1C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7079.7 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

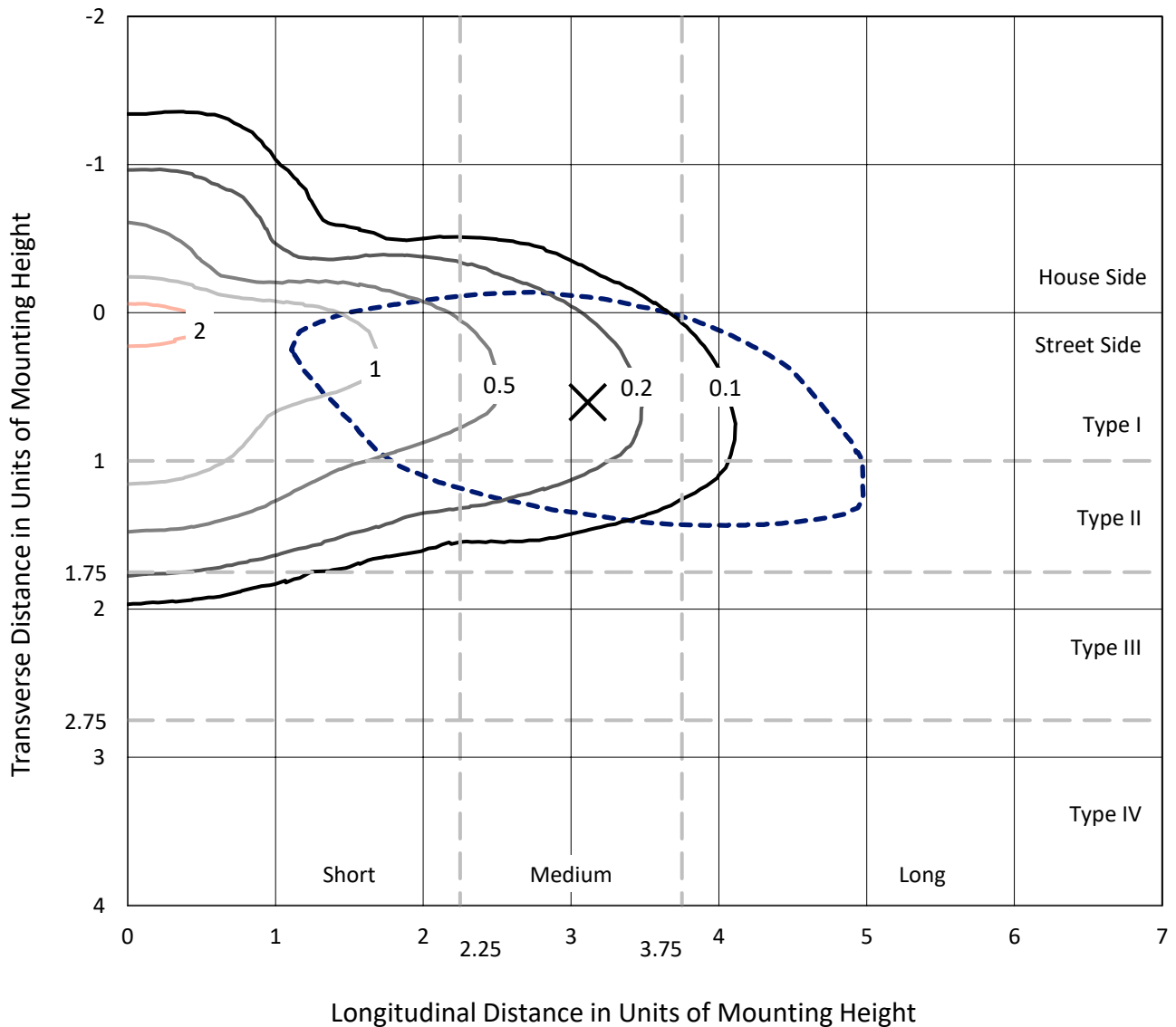
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

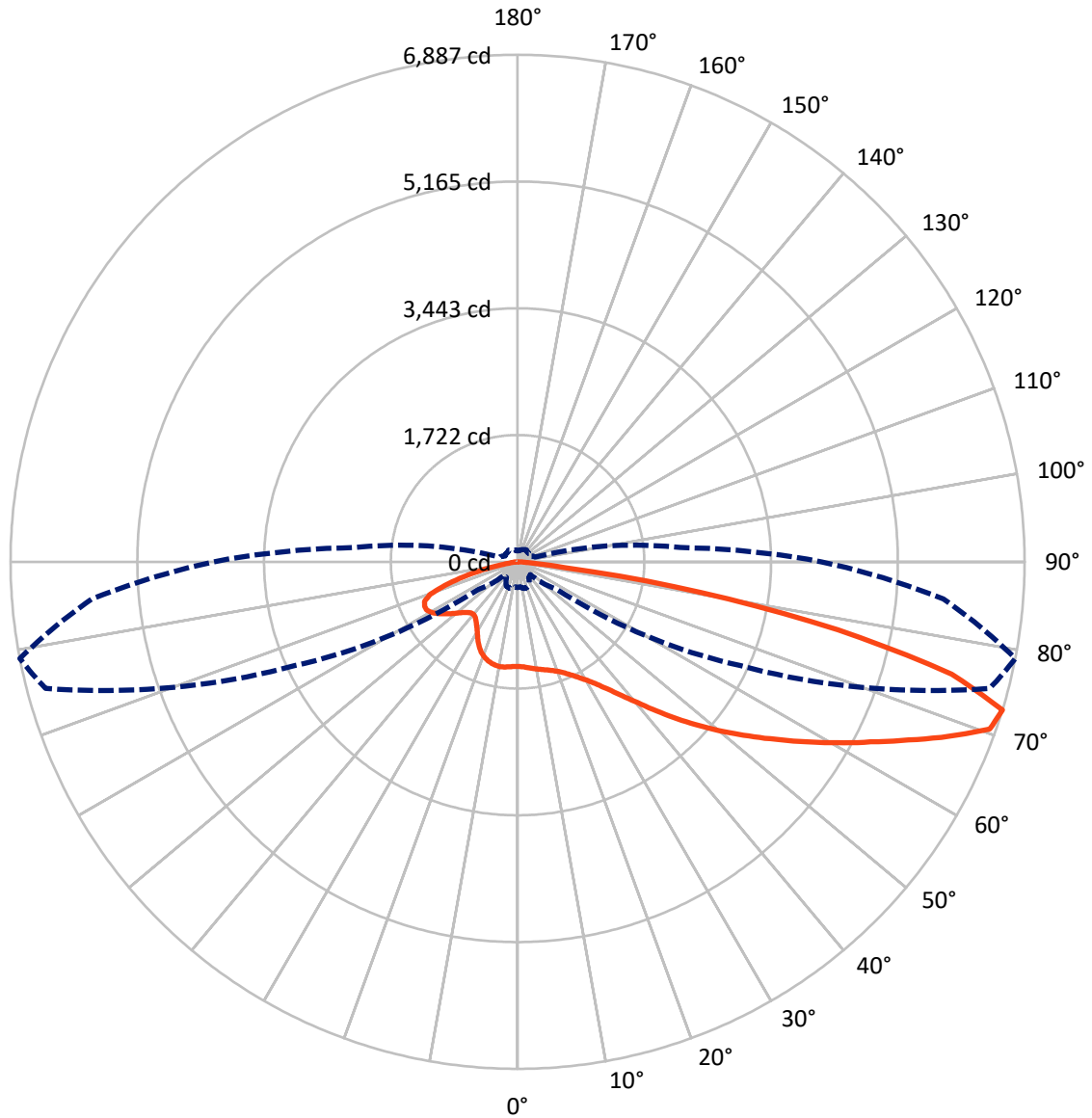
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.9	0.0	1557.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5521.8	0.0	5521.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	7079.7	0.0	7079.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.8
10°-20°	337.3	4.8
20°-30°	544.2	7.7
30°-40°	816.8	11.5
40°-50°	1158.7	16.4
50°-60°	1463.3	20.7
60°-70°	1486.1	21.0
70°-80°	1012.9	14.3
80°-90°	131.4	1.9
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°	7079.7	100.0
0°-180°	7079.7	100.0

Coefficient of Utilization

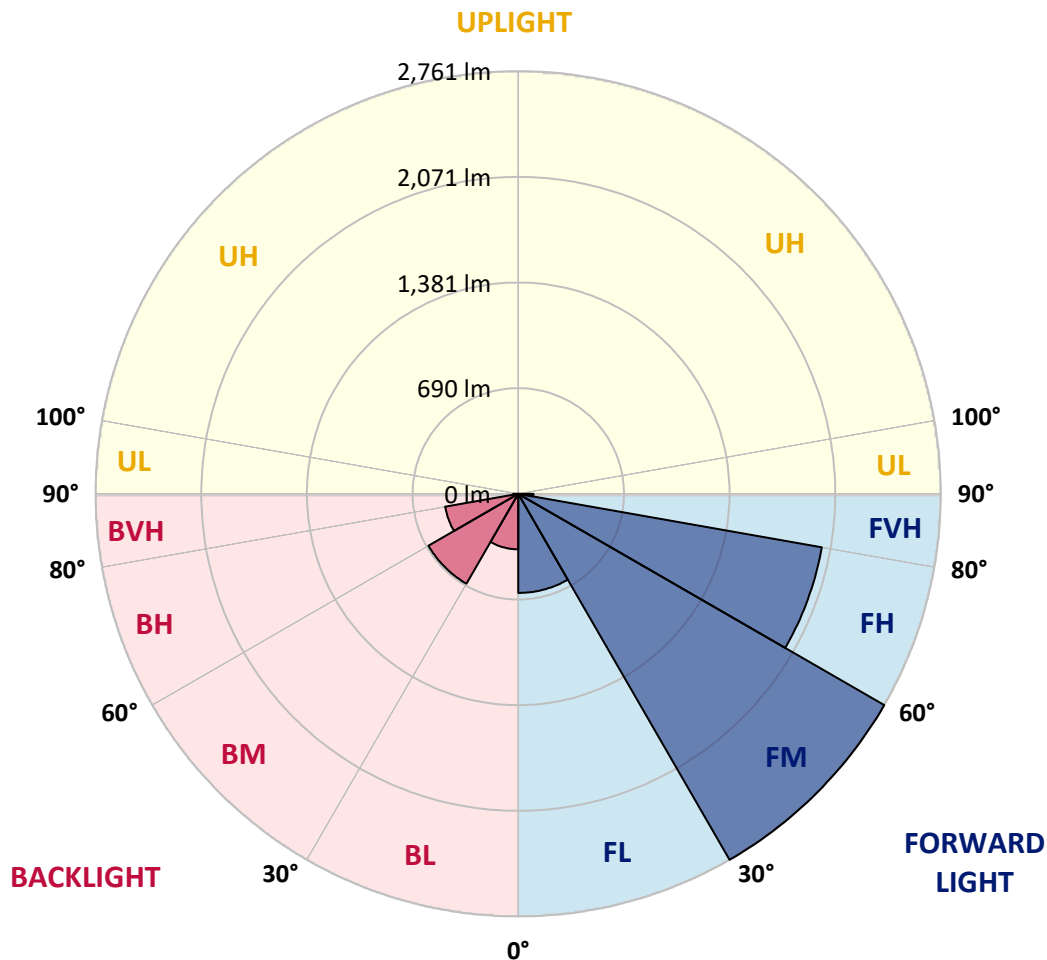


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.6	9.1			
FM (30°-60°)	2761.2	39.0			
FH (60°-80°)	2013.9	28.4			G2/5000
FVH (80°-90°)	99.0	1.4			G1/100
BL (0°-30°)	362.9	5.1	B1/500		
BM (30°-60°)	677.5	9.6	B1/1000		
BH (60°-80°)	485.1	6.9	B1/500		G1/500
BVH (80°-90°)	32.4	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°	79°	85°
0°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1421.9	1415.2	1419.3	1417.8	1419.7	1421.9	1422.7	1423.8	1427.5	1427.2	1426.8
5°	1418.9	1412.1	1417.8	1415.9	1420.8	1426.1	1430.5	1434.7	1440.6	1443.3	1439.5
7.5°	1412.6	1408.0	1413.7	1419.3	1428.3	1436.1	1442.5	1451.9	1460.5	1462.0	1464.6
10°	1375.4	1372.2	1385.2	1399.8	1424.5	1445.9	1459.7	1470.6	1480.0	1481.4	1485.2
12.5°	1336.9	1332.8	1347.4	1367.2	1407.3	1445.9	1475.1	1489.3	1497.5	1502.4	1508.1
15°	1330.6	1327.2	1335.4	1352.7	1386.0	1435.8	1485.6	1511.8	1518.9	1524.6	1526.7
17.5°	1361.3	1354.8	1358.2	1364.3	1383.7	1426.4	1493.8	1537.3	1548.2	1554.1	1554.1
20°	1432.4	1423.4	1418.2	1406.2	1402.8	1427.9	1493.1	1567.9	1582.2	1589.7	1591.6
22.5°	1527.1	1521.2	1509.9	1479.6	1446.7	1446.3	1507.3	1607.3	1633.8	1641.0	1636.5
25°	1641.7	1632.7	1618.6	1577.4	1514.0	1482.6	1531.2	1657.5	1702.0	1704.0	1690.8
27.5°	1773.6	1760.1	1740.7	1686.3	1600.9	1539.6	1567.9	1715.1	1780.3	1779.6	1752.6
30°	1912.5	1899.0	1878.4	1812.5	1705.1	1616.3	1618.9	1777.4	1873.2	1869.1	1823.0
32.5°	2014.0	2003.9	1999.8	1948.8	1824.9	1706.9	1677.3	1846.2	1987.8	1984.0	1919.6
35°	2091.9	2078.8	2083.6	2057.8	1955.6	1808.4	1748.9	1928.2	2127.1	2126.7	2046.6
37.5°	2169.0	2157.4	2161.5	2144.3	2076.5	1937.2	1836.1	2028.6	2299.7	2308.0	2200.1
40°	2239.4	2227.1	2243.5	2227.4	2170.5	2074.3	1935.3	2142.0	2499.7	2515.5	2385.9
42.5°	2281.8	2272.0	2299.4	2299.7	2252.1	2190.0	2044.4	2267.1	2731.1	2766.4	2614.3
45°	2296.3	2293.0	2334.1	2342.7	2324.4	2257.0	2142.5	2403.4	2980.5	3043.4	2874.5
47.5°	2280.6	2274.3	2331.2	2363.0	2377.6	2288.5	2223.7	2551.0	3235.2	3327.4	3158.4
50°	2201.2	2188.9	2273.6	2340.6	2392.6	2309.1	2305.7	2721.4	3524.7	3625.4	3443.8
52.5°	2058.5	2049.2	2145.4	2261.9	2359.7	2319.2	2397.9	2907.5	3799.6	3929.8	3736.2
55°	1876.2	1863.9	1969.8	2121.9	2277.7	2315.8	2489.9	3115.7	4123.9	4256.0	4038.5
57.5°	1587.1	1562.4	1696.4	1876.2	2143.9	2311.7	2585.9	3322.8	4453.4	4611.8	4360.9
60°	1165.4	1128.7	1293.1	1506.1	1882.5	2271.6	2704.6	3555.0	4848.9	4991.5	4713.0
62.5°	678.6	657.2	764.8	963.6	1418.9	2035.8	2771.2	3825.0	5237.5	5387.4	5059.0
65°	527.0	520.9	530.2	545.6	789.8	1524.2	2565.6	4088.3	5731.9	5836.8	5419.6
67.5°	482.0	477.4	481.5	452.7	400.7	849.0	2029.7	4154.9	6261.4	6325.1	5735.3
70°	428.4	423.1	436.6	411.9	315.3	386.1	1311.5	3913.0	6682.7	6802.2	5975.3
72.5°	349.0	343.1	374.5	363.3	265.5	247.9	658.8	3338.2	6638.5	6886.5	5803.4
75°	268.1	264.8	302.2	311.6	216.5	195.1	316.1	2481.3	5842.0	6091.8	5001.7
77.5°	208.2	205.6	224.7	258.8	174.6	151.3	194.3	1574.0	4402.5	4446.2	3446.8
80°	156.2	148.6	166.3	200.4	135.9	110.5	131.8	917.9	2782.8	2522.5	1500.2
82.5°	97.8	94.0	108.6	133.7	95.8	76.1	85.8	507.1	1115.2	656.8	289.5
85°	55.8	54.3	59.1	76.4	52.1	43.8	49.1	224.0	203.8	140.0	87.2
87.5°	22.4	21.7	27.0	34.0	19.1	16.1	17.2	53.9	44.9	41.6	28.8
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°	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2	1421.2
2.5°	1425.3	1425.3	1420.0	1411.8	1402.4	1396.5	1386.7	1384.1	1374.0	1371.0	1375.9
5°	1442.5	1439.5	1423.4	1400.3	1368.4	1339.2	1307.0	1286.8	1258.3	1248.1	1255.6
7.5°	1464.2	1456.0	1428.3	1377.4	1310.7	1245.2	1177.0	1125.3	1075.9	1058.3	1060.6
10°	1484.1	1472.5	1425.3	1336.2	1220.9	1107.3	998.8	922.7	865.1	841.4	846.8
12.5°	1504.0	1482.6	1405.5	1267.6	1093.2	939.2	823.5	764.3	728.8	700.3	709.6
15°	1522.6	1492.7	1374.7	1175.9	953.0	796.9	711.6	664.3	635.9	617.2	620.5
17.5°	1544.4	1501.3	1328.7	1059.4	819.8	698.4	628.7	600.3	594.7	592.4	593.9
20°	1574.7	1509.2	1268.0	929.1	721.6	619.8	583.8	581.2	580.9	579.7	583.4
22.5°	1607.3	1518.5	1187.9	810.8	638.2	570.7	564.4	559.1	555.8	555.3	559.4
25°	1645.8	1521.5	1087.5	713.8	566.9	547.5	540.0	532.2	529.9	529.9	532.2
27.5°	1683.4	1511.5	970.7	629.6	527.0	526.1	516.4	513.8	513.4	514.6	517.5
30°	1720.8	1492.3	854.5	551.7	503.7	503.7	500.3	502.1	503.7	507.5	510.0
32.5°	1771.3	1472.1	757.6	493.9	483.5	479.7	483.1	486.9	488.3	493.2	497.3
35°	1845.5	1457.9	680.4	462.5	462.5	457.7	459.5	458.8	455.4	453.2	458.4
37.5°	1943.6	1457.1	616.7	447.9	444.8	444.1	444.5	439.6	426.5	410.8	411.2
40°	2061.6	1477.3	567.7	437.8	435.5	440.0	437.8	424.7	388.7	361.4	360.6
42.5°	2219.9	1535.0	536.3	425.4	432.1	437.8	428.8	383.5	359.2	340.8	340.0
45°	2406.5	1628.6	520.2	412.4	425.8	432.6	389.1	369.2	349.7	327.7	326.2
47.5°	2617.6	1746.6	516.4	400.0	411.5	415.6	372.3	363.3	341.1	317.2	315.3
50°	2847.6	1886.3	526.5	385.3	390.9	376.7	366.6	358.3	335.6	311.9	309.3
52.5°	3085.4	2040.2	546.7	365.5	370.3	354.6	364.4	357.2	332.2	300.3	298.1
55°	3319.1	2195.2	566.2	342.2	349.4	334.8	358.0	352.8	316.8	280.8	279.0
57.5°	3556.5	2349.5	585.3	321.6	329.1	315.7	347.9	340.8	299.6	262.9	262.1
60°	3803.3	2499.4	594.3	301.9	307.1	298.1	332.5	320.2	280.1	244.6	243.4
62.5°	4034.3	2624.0	579.7	282.0	285.4	281.6	312.3	295.8	260.7	224.0	223.6
65°	4266.2	2698.2	534.7	262.5	263.2	261.4	283.8	269.7	237.8	205.9	203.8
67.5°	4476.3	2739.7	463.2	241.6	239.6	238.9	257.3	241.2	215.7	188.0	185.7
70°	4520.8	2634.1	353.9	216.8	216.8	214.9	228.1	211.6	191.4	168.9	168.1
72.5°	4129.1	2215.8	251.3	188.7	191.8	188.0	198.8	185.0	166.7	151.7	147.2
75°	3329.6	1624.9	182.8	159.9	165.1	158.8	168.9	159.2	143.4	143.1	128.8
77.5°	2287.7	1004.7	132.5	131.8	135.6	127.3	138.9	133.7	119.4	113.1	106.0
80°	976.3	400.7	96.7	101.9	101.9	94.4	107.8	109.4	97.0	94.0	94.0
82.5°	194.3	113.9	67.8	70.0	65.9	63.7	76.4	84.7	116.8	130.0	130.3
85°	58.4	41.9	40.8	38.2	33.7	34.0	44.9	85.0	104.9	60.0	51.7
87.5°	16.1	10.5	10.9	8.6	7.1	9.3	15.4	64.4	35.2	15.0	12.7
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)