

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: P961410

Luminaire Tested: **NAV-SB2A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9111.2 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

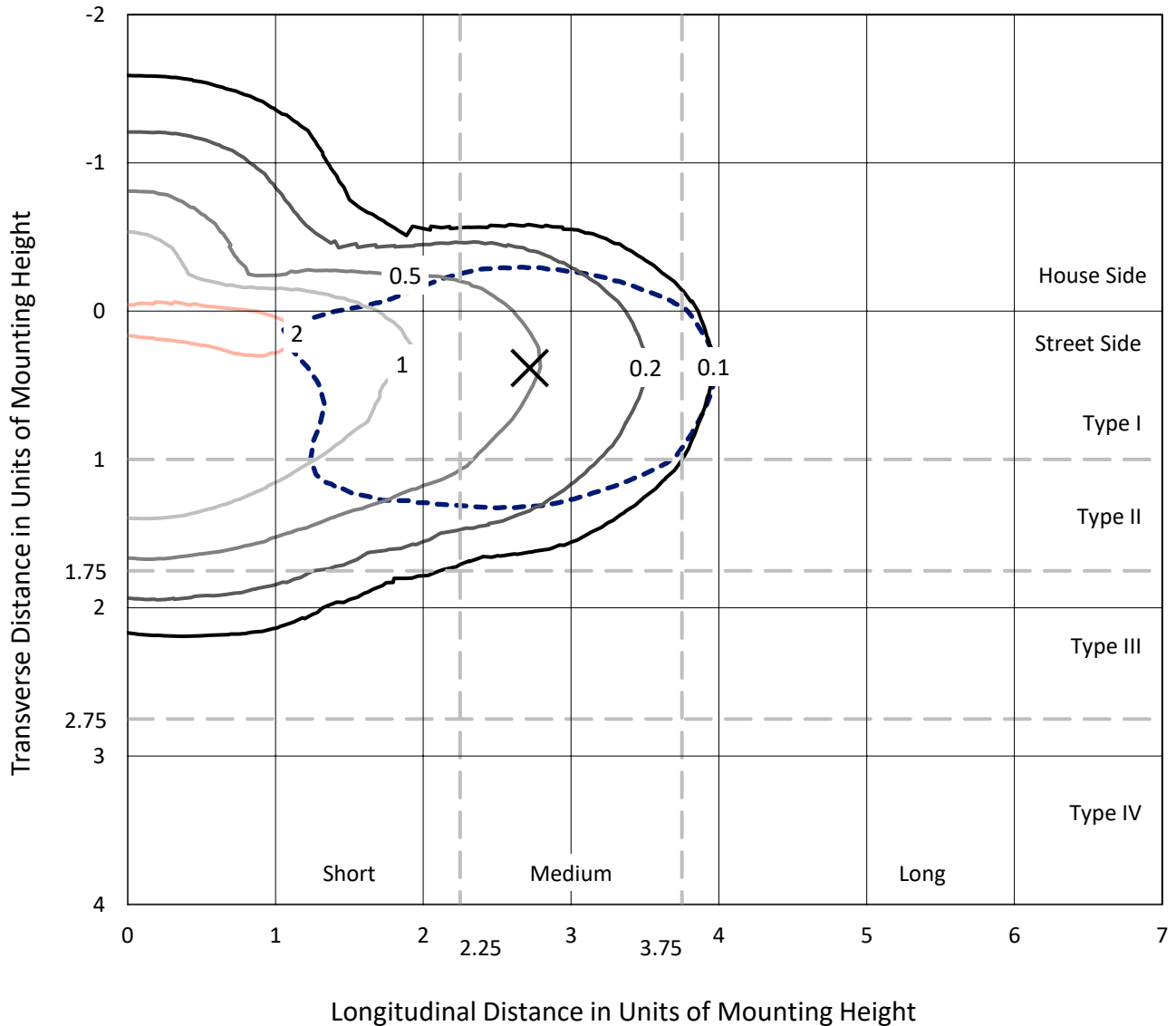
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961410
 CATALOG NUMBER: NAV-SB2A-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

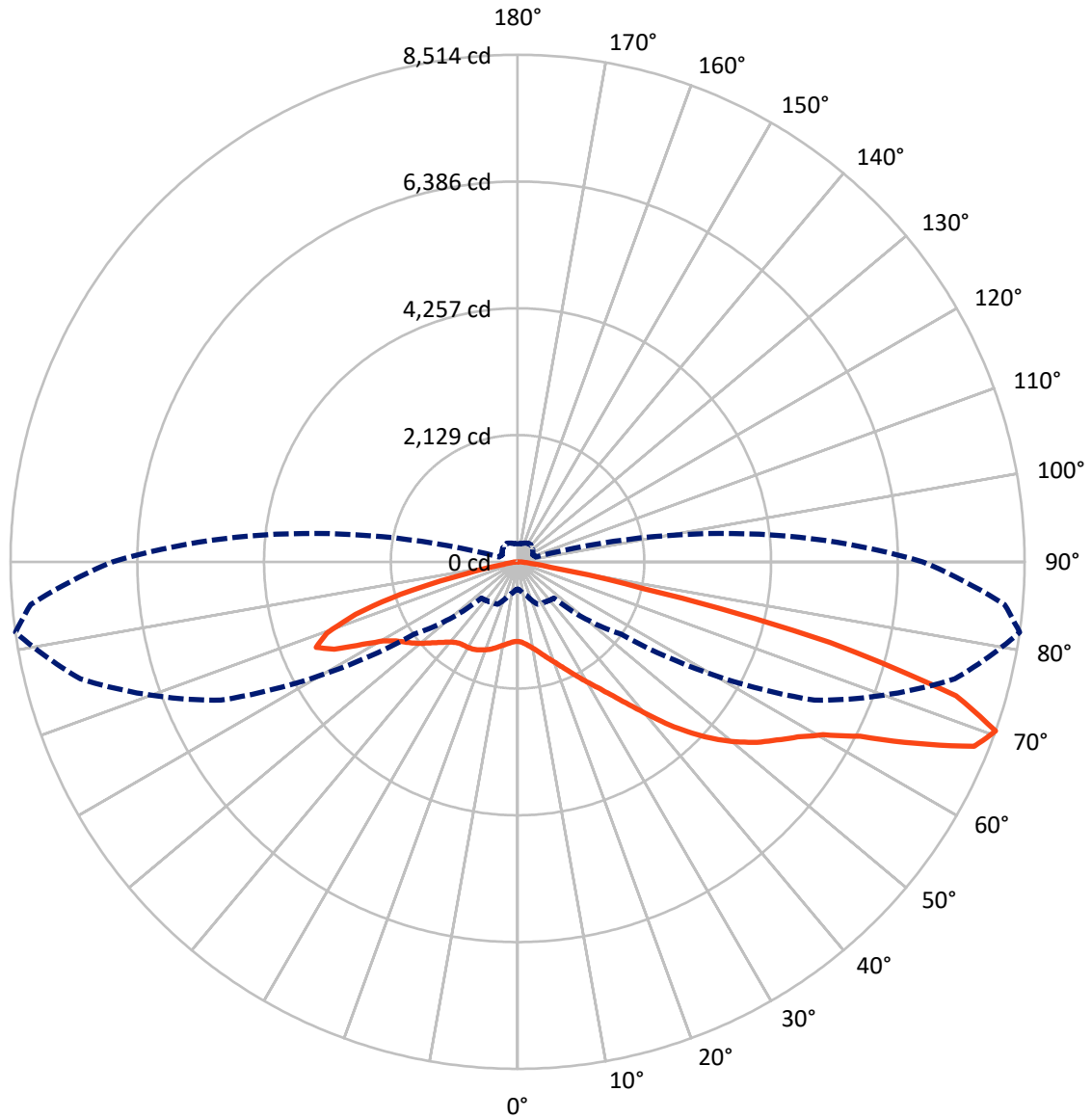
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P961410
CATALOG NUMBER: NAV-SB2A-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P961410
 CATALOG NUMBER: NAV-SB2A-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2246.1	0.0	2246.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	6865.1	0.0	6865.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	9111.2	0.0	9111.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.4
10°-20°	362.4	4.0
20°-30°	606.2	6.7
30°-40°	947.0	10.4
40°-50°	1508.3	16.6
50°-60°	2099.0	23.0
60°-70°	2195.6	24.1
70°-80°	1147.5	12.6
80°-90°	119.2	1.3
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°	9111.2	100.0
0°-180°	9111.2	100.0

Coefficient of Utilization

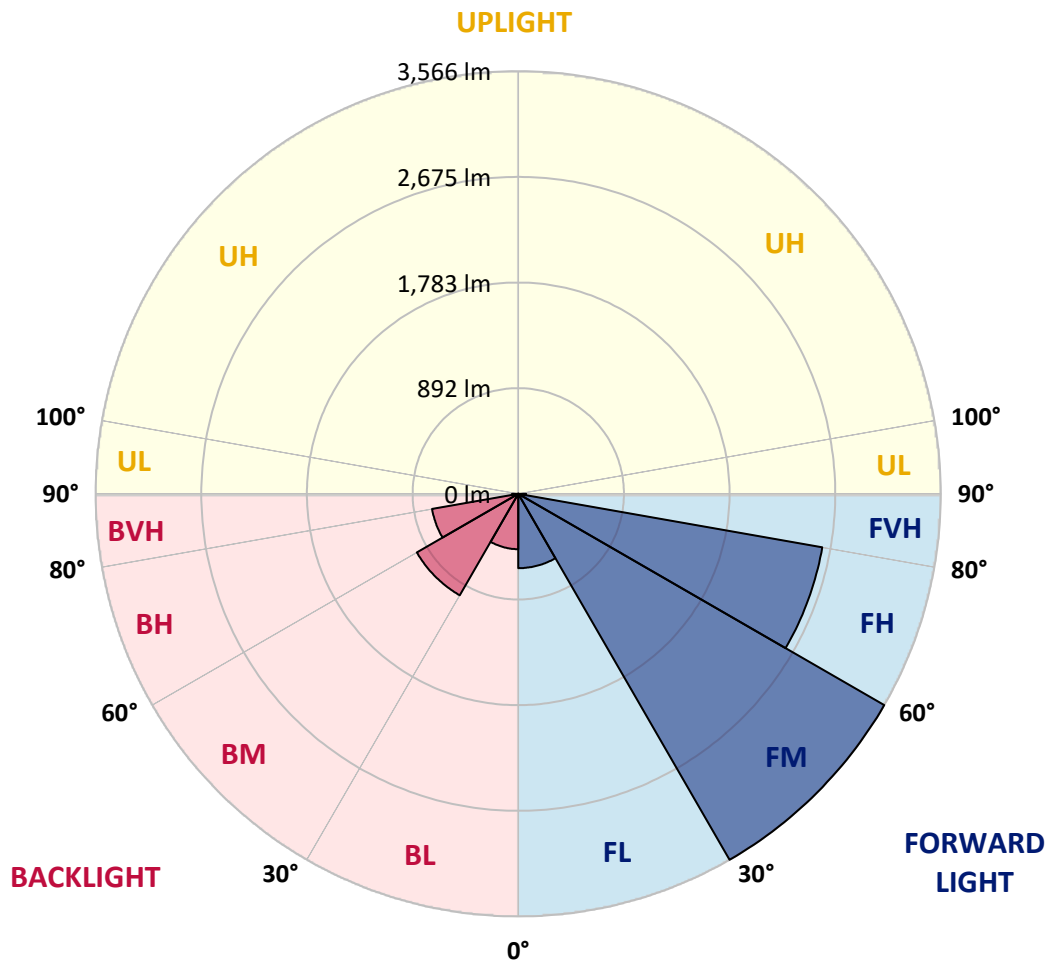


REPORT NUMBER: P961410
 CATALOG NUMBER: NAV-SB2A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.4	6.9			
FM (30°-60°)	3566.0	39.1			
FH (60°-80°)	2604.9	28.6			G2/5000
FVH (80°-90°)	66.7	0.7			G1/100
BL (0°-30°)	467.3	5.1	B1/500		
BM (30°-60°)	988.2	10.8	B1/1000		
BH (60°-80°)	738.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	52.4	0.6			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 Medium



REPORT NUMBER: P961410
 CATALOG NUMBER: NAV-SB2A-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1367.8	1375.4	1373.1	1370.6	1370.6	1367.2	1366.7	1361.9	1358.0	1351.8	1350.3
5°	1385.1	1393.4	1392.4	1394.3	1400.6	1402.1	1403.5	1400.6	1392.9	1385.1	1381.7
7.5°	1369.7	1378.8	1381.7	1393.4	1412.7	1430.1	1443.2	1448.4	1441.3	1430.1	1424.7
10°	1317.4	1327.6	1337.7	1365.3	1399.6	1440.7	1475.6	1496.3	1494.9	1484.2	1475.1
12.5°	1211.6	1222.2	1243.9	1297.6	1360.5	1432.9	1497.7	1541.3	1556.3	1548.6	1532.6
15°	1127.0	1136.1	1152.6	1207.7	1289.4	1399.6	1506.0	1590.6	1628.8	1624.4	1605.1
17.5°	1124.5	1128.4	1138.6	1164.7	1227.5	1347.5	1497.3	1639.0	1712.0	1711.4	1687.3
20°	1167.1	1168.5	1174.3	1179.7	1215.4	1307.8	1475.1	1679.1	1805.2	1805.2	1779.2
22.5°	1226.1	1225.1	1230.9	1226.1	1243.4	1304.4	1461.0	1714.4	1909.2	1917.0	1884.1
25°	1314.6	1309.7	1308.3	1297.1	1300.5	1335.8	1476.5	1754.5	2032.5	2048.5	2007.4
27.5°	1432.5	1424.7	1419.4	1393.8	1385.1	1400.6	1523.9	1802.9	2169.8	2197.4	2145.1
30°	1586.3	1572.2	1564.5	1520.0	1488.6	1491.0	1595.4	1867.1	2313.4	2357.9	2291.6
32.5°	1796.1	1774.3	1753.6	1680.5	1623.0	1604.1	1687.8	1956.1	2469.0	2540.2	2455.1
35°	2031.0	2013.6	1991.4	1878.7	1790.3	1746.8	1812.5	2080.3	2651.4	2764.0	2653.3
37.5°	2257.4	2242.3	2253.0	2101.1	1987.1	1923.7	1975.9	2247.1	2876.1	3042.5	2901.8
40°	2491.3	2479.7	2481.1	2336.1	2203.1	2132.1	2174.1	2456.5	3133.8	3373.6	3200.6
42.5°	2745.6	2737.0	2707.9	2579.3	2429.9	2363.6	2402.4	2698.2	3410.4	3750.8	3528.4
45°	3030.4	3025.1	2998.0	2850.5	2679.4	2604.9	2657.1	2965.1	3688.4	4105.6	3857.6
47.5°	3276.4	3280.8	3277.4	3153.2	2975.8	2866.5	2928.8	3243.6	3947.1	4439.2	4173.3
50°	3394.9	3417.7	3451.0	3412.3	3302.0	3190.9	3202.9	3512.4	4193.6	4752.0	4476.0
52.5°	3333.0	3376.0	3467.0	3528.9	3571.4	3548.1	3515.7	3779.3	4425.6	5034.4	4762.2
55°	3102.4	3162.8	3313.7	3463.1	3680.2	3848.9	3891.4	4075.2	4652.0	5282.8	5032.9
57.5°	2682.3	2780.4	2915.8	3218.0	3583.5	3994.4	4329.5	4485.6	4891.7	5548.2	5316.2
60°	1962.0	2093.5	2261.7	2711.3	3245.0	3916.5	4702.2	5116.1	5232.5	5892.0	5685.1
62.5°	1255.5	1336.8	1491.5	1915.0	2528.6	3517.7	4816.3	5904.1	5810.3	6455.8	6238.2
65°	859.6	911.8	1053.5	1291.3	1634.6	2618.5	4510.7	6494.9	6727.9	7349.1	7183.8
67.5°	624.6	664.3	785.2	993.5	1065.1	1549.5	3500.3	6467.9	7620.0	8269.7	8012.5
70°	455.4	483.5	585.0	785.2	819.5	862.0	2120.5	5498.0	7600.6	8514.4	8206.4
72.5°	337.4	356.8	425.0	609.2	663.3	582.1	1049.6	3995.9	6531.2	7701.1	7454.1
75°	244.2	258.6	308.9	466.1	530.8	443.3	523.6	2335.2	4555.7	5417.2	5460.8
77.5°	186.7	197.7	230.6	341.3	425.0	332.6	324.9	1074.3	2160.1	2170.7	2292.6
80°	149.9	157.1	175.0	240.3	325.8	249.0	211.8	433.7	682.6	577.8	606.3
82.5°	110.2	122.3	147.9	168.7	233.0	171.6	129.0	219.0	259.6	223.3	225.3
85°	62.8	71.0	89.5	120.8	148.9	105.0	74.0	97.2	120.8	99.1	88.5
87.5°	22.2	29.0	31.5	47.4	64.8	43.6	28.5	28.1	39.7	29.5	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961410
 CATALOG NUMBER: NAV-SB2A-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8	1335.8
2.5°	1345.5	1343.1	1333.4	1320.3	1306.8	1293.8	1289.4	1280.2	1274.0	1270.6	1274.4
5°	1372.6	1364.8	1342.1	1313.1	1282.7	1249.8	1226.5	1205.3	1189.8	1175.3	1181.1
7.5°	1411.2	1397.7	1358.5	1307.8	1253.7	1199.0	1158.4	1127.4	1106.7	1093.2	1096.0
10°	1456.2	1435.4	1375.4	1299.6	1216.0	1137.6	1089.8	1063.1	1050.1	1042.8	1044.8
12.5°	1508.0	1478.5	1392.9	1280.7	1158.4	1069.0	1036.1	1028.4	1028.8	1029.3	1030.2
15°	1571.7	1530.6	1406.9	1239.6	1083.4	1016.3	1010.4	1023.1	1036.1	1042.3	1041.9
17.5°	1643.8	1585.8	1409.3	1171.9	1009.9	982.4	1000.8	1027.9	1047.7	1056.4	1058.3
20°	1721.2	1641.8	1391.9	1076.1	949.6	954.9	987.7	1022.5	1044.3	1055.4	1058.3
22.5°	1809.6	1701.8	1350.3	975.6	900.3	924.9	963.5	997.4	1020.1	1031.3	1034.1
25°	1910.7	1769.0	1285.0	891.0	857.7	891.0	929.7	957.8	976.1	986.3	989.1
27.5°	2022.8	1839.2	1198.0	823.8	820.4	856.2	888.2	909.9	919.5	927.3	930.2
30°	2135.5	1902.9	1092.6	773.1	788.0	821.8	844.6	854.3	857.2	858.6	862.0
32.5°	2257.4	1958.1	982.0	731.0	757.1	788.5	802.1	806.5	792.8	783.7	786.6
35°	2404.8	2017.0	873.6	697.6	726.6	753.7	758.1	754.2	738.2	719.4	720.4
37.5°	2587.0	2090.5	787.1	673.9	698.1	716.1	710.7	709.7	711.1	688.9	690.4
40°	2810.3	2186.2	723.8	655.6	675.0	678.8	663.8	672.0	679.3	645.4	646.4
42.5°	3058.4	2301.7	683.6	643.0	655.6	646.4	623.2	632.4	631.4	586.9	586.4
45°	3311.3	2427.5	669.6	633.9	637.7	619.3	593.7	596.1	575.8	535.7	537.1
47.5°	3562.7	2562.4	678.3	626.1	615.4	594.7	574.8	564.2	534.2	504.3	504.3
50°	3809.2	2704.1	710.2	610.6	585.0	572.9	558.4	539.6	507.7	482.1	480.1
52.5°	4037.9	2846.6	746.0	585.0	546.8	554.0	544.9	523.2	491.7	465.6	466.1
55°	4254.5	2989.3	760.0	549.7	511.1	537.6	532.3	492.2	454.5	433.2	431.2
57.5°	4490.4	3160.9	744.6	504.7	482.1	518.8	498.5	454.0	432.2	416.3	414.8
60°	4817.3	3430.2	711.1	449.2	454.5	490.8	455.9	437.6	413.9	396.0	395.0
62.5°	5360.2	3932.5	657.5	394.0	422.1	449.2	435.6	417.3	393.1	375.7	375.7
65°	6162.7	4630.6	556.5	351.0	385.8	408.6	413.9	395.4	370.3	352.0	352.9
67.5°	6839.6	5068.6	421.1	315.2	348.6	375.7	390.6	372.8	346.1	328.3	328.7
70°	6802.4	4750.6	321.5	279.9	315.7	343.3	362.6	348.6	320.0	303.1	304.6
72.5°	6041.9	3974.1	260.1	244.2	282.4	309.4	332.6	322.0	292.9	276.5	276.5
75°	4438.7	2821.0	207.9	207.9	240.8	274.1	299.7	292.9	266.4	254.8	251.4
77.5°	1871.0	1183.6	163.0	172.6	200.2	235.4	267.3	269.8	246.6	261.1	236.9
80°	497.5	326.4	124.2	135.8	157.1	194.3	232.6	231.5	206.4	192.9	179.4
82.5°	189.5	128.6	88.5	95.7	113.6	148.9	184.2	190.0	164.8	142.6	142.6
85°	73.0	55.1	54.6	57.5	66.2	98.6	139.2	144.1	124.2	105.4	108.8
87.5°	18.9	16.4	20.3	19.4	30.4	52.7	79.7	82.7	76.0	44.0	62.8
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)